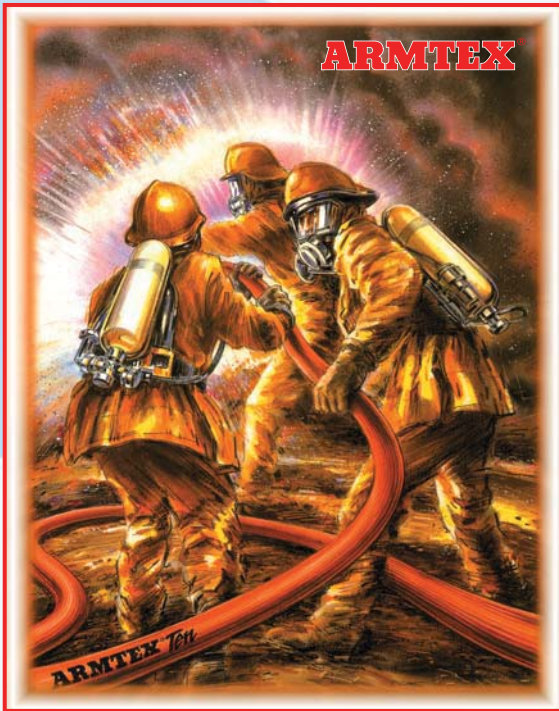
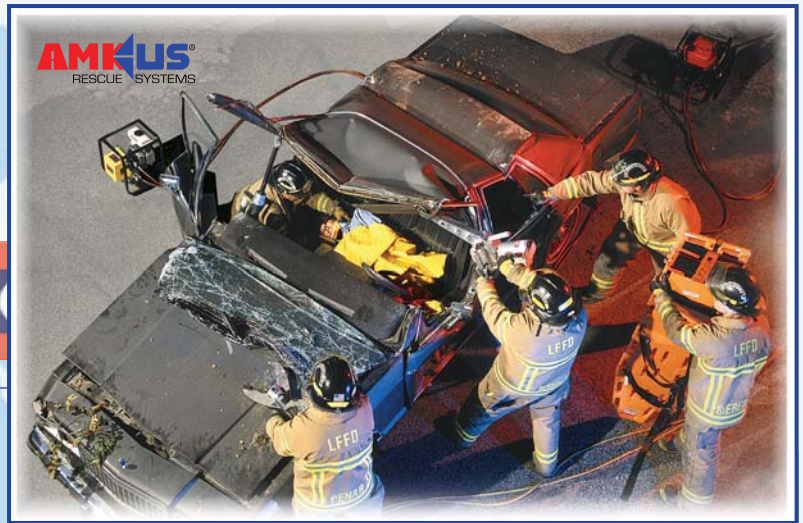


FIRE-RESCUE-SAFETY EPOXY-INDUSTRIAL SUPPLY

CATALOG



FIRE



RESCUE
PHILIPPINES

CAMBODIA



MALAYSIA



MRO

ABRASIVE

ADHESIVE

SINGAPORE



SAFETY

WARRANTY

AECS SUPPLY Co., Ltd. WARRANTY TERMS

WHAT IS PROTECTED: AECS SUPPLY Co., Ltd. (Seller) provides a LIMITED one-year warranty on all products sold by the company. The agreement is between the Seller and the Purchaser. The one (1) year warranty begins on the day the tax invoice is issued and continues for 365 days. The warranty is valid when the item purchased is used correctly, for the intended purpose and application, stored and maintained according to the owner's manual and used in a safe manner by trained persons. If there is any question regarding the use, maintenance, storage or safe practice when using any of the products sold by AECS SUPPLY Co., Ltd. please contact the company to provide any information the user may require.

EXCLUSIONS: The Limited One Year Warranty covers all defects in material and workmanship with the following exceptions, specified as follows: (1) damage or failure due to accident, neglect in maintenance, unsafe or incorrect use in the wrong application, normal wear and tear, mishandling or damage from improper storage. Repairs or modifications from any person other than the trained technician at AECS SUPPLY Co., Ltd. voids the warranty.

WARRANTY CLAIMS: When a warranty claim is submitted, the defective goods must be returned to AECS SUPPLY Co., Ltd. for inspection. Once the goods are received, the goods will be inspected to determine the cause of the defect. Once the cause is determined, a reply will be provided to the purchaser as to the cause and whether the defect is covered by the warranty or falls under the "exclusion" clause.

1. If the item defect is covered by the warranty, by the decision of AECS SUPPLY Co., Ltd. the item can be repaired or replaced as may be fitting to the nature of the defect.
2. If the defect is not covered by the warranty, AECS SUPPLY Co., Ltd. will supply supporting information and offer to repair or replace the item at the standard repair or replacement cost.

WHO PAYS FOR WHAT: AECS SUPPLY Co., Ltd. will collect the item and return it to the company for inspection at no charge. If the item is located outside of the Bangkok Metropolitan Area, and Thailand the purchaser will return the item to AECS SUPPLY Co., Ltd. at their own expense.

REPAIR: AECS SUPPLY Co., Ltd. offer repairs on all items that can be repaired that are distributed and sold by the company. The procedure to repair is that the item is returned to AECS SUPPLY Co., Ltd. for inspection and quotation on the repair. There is a \$USD 15 inspection charge on most items. For electrical & engine driven machinery the inspection charge is \$USD 150 The inspection charge will be included in the amount of the repair if the repair is made. If the decision is made not to repair, the inspection charge will be collected prior to the return of the item.



CENTURY SERIES FIREFIGHTING SUITS TO EN 469



RS CENTURY



Integrated Sit Harness

FIRE/RESCUE SUIT COMPLETE WITH INTEGRATED SIT HARNESS

- Coat, Trousers, Integrated Sit Harness, Helmet, Boots and Gloves. Sizes available M-XL
- Coat Manufactured with Integrated Hood and D-Ring and strap Connected to Sit-Harness
- Coat Has Four (4) Utility Pockets and One (1) Radio Pocket
- Trousers Constructed With H-D Adjustable Suspenders, Integrated Sit Harness. One (1) Side Pocket Each Leg.
- 2 in.-3M Lime-Yellow/Silver Triple Trim on Coat and Trousers
- Two-layer Closure, Zipper Inner and Velcro Outer Closure, Coat and Trouser

3 LAYER CONSTRUCTION

- Outer Layer 240 gr. NOMEX ADVANCE 60/40
- Integrated and Removable Moisture and Thermal Barrier
- Breathable Moisture Barrier Material: PTFE/NOMEX
- Thermal Barrier: NOMEX Facecloth and Aramid Batt.
- Complete Suit weighs less than 9 KGS.
- Manufactured to EN 469:2005 CE 0362 and ISO 9002



RS CENTURY

(MAHERO 06112)



FS CENTURY



DRD (Drag Rescue Device)



FIRE SUIT COMPLETE WITH INTEGRATED OUTER HOOD

- Coat With Integrated Hood, Trousers, Helmet, Boots and Gloves. Sizes available M-XL
- Coat Manufactured with Integrated Hood. Coat Length 95 cm. (approx.)
- Coat Has Four (4) Utility Pockets and One (1) Radio Pocket
- Trousers Constructed With H-D Adjustable Suspenders and One (1) Side Pocket, Each Leg.
- 2 in.-3M Lime-Yellow/Silver Triple Trim on Coat and Trousers
- Two-layer Closure, Zipper Inner and Velcro Outer Closure, Coat and Trouser

3 LAYER CONSTRUCTION

- Outer Layer 240 gr. NOMEX ADVANCE 60/40
- Integrated and Removable Moisture and Thermal Barrier
- Breathable Moisture Barrier Material: PTFE/NOMEX
- Thermal Barrier: NOMEX Facecloth and Aramid Batt.
- Complete Suit weighs less than 8 KGS.
- Manufactured to EN 469:2005 CE 0362 and ISO 9002

NEW FEATURES

CENTURY SERIES NEW FEATURES

- AVAILABLE COLORS, ORANGE AND YELLOW
- DRD (DRAG RESCUE DEVICE) INTEGRATED IN COAT
- KEVLAR PADDED AND REMOVABLE KNEE PADS
- REINFORCED LEATHER CUFFS, COAT AND PANTS
- TAB ADJUSTMENT ON COAT CUFFS AND WAIST



**LIGHT WEIGHT
FULL PROTECTION
HIGHEST VALUE**



**LATEST FABRICS
HIGHEST QUALITY**



EAGLE SERIES FIREFIGHTING SUITS

EAGLE SERIES FIREFIGHTING SUITS NFPA 1971 COMPLIANT

FIRE SUITS THAT MEET YOUR BUDGET AND FIRE PROTECTION NEEDS

- Coat, Trousers, Helmet, Boots, Gloves and Optional Hood
- Sizes available M-XL (2XL as Special Order)
- Coat Manufactured with Four (4) in. Raised Collar (Eagle II) Or Integrated Hood (Eagle I)
- Coat Has Four (4) Utility Pockets and one (1) Radio Pocket
- Trousers Constructed With H-D Adjustable Suspenders and One (1) Side Pocket, Each Leg.
- 3 in.-3M Lime-Yellow/Silver Triple Trim on Coat and Trousers to NFPA.
- Two-layer Closure, Zipper Inner and Velcro Outer Closure, Coat and Trouser



DRD (Drag Rescue Device)

3 LAYER CONSTRUCTION

- Outer Layer 250 gr. (7.5 oz) NOMEX IIIA Shell Material
- Integrated and Removable Moisture and Thermal Barrier
- Breathable Moisture Barrier Material: PTFE/NOMEX
- Thermal Barrier: NOMEX Facecloth and Aramid Batt.
- Complete Suit weighs less than 7 KGS.
- Manufactured to comply With NFPA 1971-2007 certified to EN 469:2005 CE 0362 and ISO 9002

EAGLE SERIES NEW FEATURES

- AVAILABLE COLORS, YELLOW, ORANGE, RED, NAVY BLUE
- DRD (DRAG RESCUE DEVICE) INTEGRATED IN COAT
- KEVLAR PADDED KNEES
- REINFORCED LEATHER CUFFS, COAT AND PANTS
- TAB ADJUSTMENT ON COAT CUFFS AND WAIST

STANDARD SET (as shown) : **EAGLE II** Coat and Trousers, Model **1500-2000F** Helmet, **9687L** Boots, **Euro VI** Gloves and **3018185-SF** Hood.

STANDARD SET (as shown) : **EAGLE I** Coat With Integrated Hood and Trousers, Model **1500-2000R** Helmet, **9687L** Boots, **Euro VI** Gloves and **3018185-SF** Hood.



EAGLE II
(MAHERO 08113)

EAGLE I
(MAHERO 08113)



EAGLE II With Sidor "Euro Style" Helmet and 3018285-SF PBI Hood



EAGLE II-Red With Sidor "Euro Style" Helmet and 3018285-SF PBI Hood



EAGLE II-Navy Blue With **1500-2000F** Helmet and **3018185-SF** PBI Hood

FIRE SUIT ACCESSORIES

FIRE SUIT STANDARD CONSTRUCTION AND SPECIAL ORDER OPTIONS

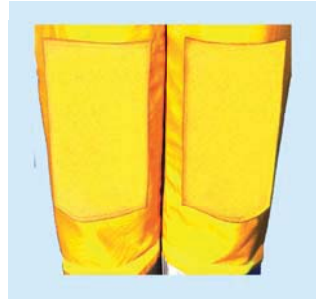
STANDARD CONSTRUCTION FEATURES



Waist Adjustment and Side Pockets on Trousers



Nomex Wristlet with Thumb Hole



Kevlar Padded Knees. Removable Kevlar Pads On Century Series.



Double Closure on Coat and Trousers

Internal Zipper and Outer Velcro Closure



Leather reinforced sleeve and pant cuffs



Three Layer Construction: Outer Shell, Moisture Barrier, Thermal Barrier



Heavy Duty Adjustable Suspenders

BSP BRAND SIZE CHART (DIMENSIONS OF COAT AND TROUSER)					
SUIT SIZING (CM)	XXL	XL	L	M	S
COAT LENGTH	90	88	86	83	80
COAT CHEST SIZE	144	138	132	126	120
COAT COLLAR SIZE	54	53	52	51	50
COAT SLEEVE LENGTH	65	63	59	56	54
TROUSER WAIST SIZE	131	125	118	114	108
TROUSER LENGTH (WAIST TO CUFF)	106	104	102	101	99
TROUSER LENGTH (INSEAM)	72.5	71	70	69	67

NOTICE: SIZES STOCKED (XL ,L AND M)

SPECIAL ORDER SIZES: SMALL AND 2XL (XXL)

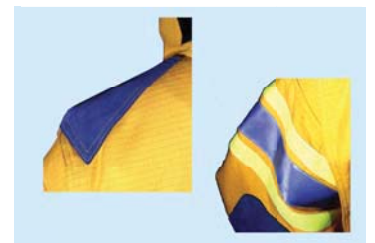


**EAGLE II
(MAHERO 08113)**



Fire Suit Equipment Bag
Included with Each Suit

SPECIAL ORDER

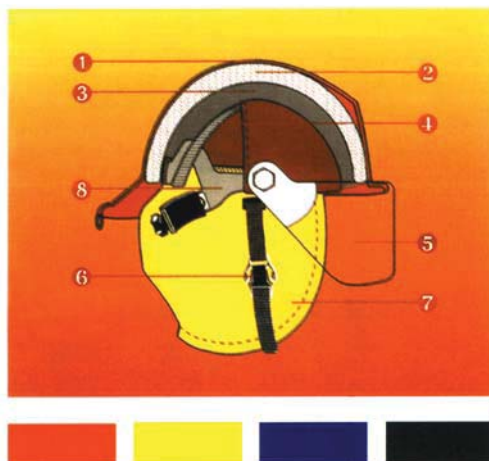


Shoulder Reinforcement, Reflective Trim Special Design Embroidered or Screened Logos or Names

FIRE HELMETS AMERICAN NFPA STYLE

FIREFIGHTING HELMETS TO NFPA

Reliable Head Protection for Firefighting and Rescue. Model 1500-2000 (First Due) Firefighting Helmet Constructed of High Heat Resistant Thermoplastic Shell and 4.5" Heat and Scratch-resistant Face shield, Foam Impact Liner, Adjustable Chinstrap with Postman Buckle and Nomex Neck Protector. Adjustable Size Adjustment. Model TC1 Constructed of Heat and Chemical Resistant Fiberglass.



- 1.Outer Shell manufactured of High Temp Thermoplastic Or High Temp and Chemical Resistant Fiberglass (F500)
- 2.Foam Impact Liner
- 3.Foam Impact Liner and Fabric Liner (Model F500)
- 4.Woven Suspension Displaces Direct Impact
- 5.Heat and Scratch-resistant Face-shield (4.5"-1500-2000)
- 6.Adjustable Chinstrap. Postman Buckle (1500-2000)
- 7.Nomex Neck Protector
- 8.Adjustable Ratchet Suspension



1500-2000 F



MODEL BSP 1500-2000F

Firefighting Helmet

Phenix First Due PH083113-1REV.A

Manufactured to NFPA 1971-2018 & ISO 9001-2008

*Use with Eagle II Firefighting Suits



BSP 1500-2000

with Optional Goggle or Flashlight

MODEL BSP 1500-2000R

Fire/Rescue Helmet

Phenix First Due PH083113-1REV.A

Manufactured to NFPA 1971-2018 & ISO 9001-2008

*Use with Century Series and Eagle I Firefighting Suits

1500-2000 R



F500

MODEL F500 Economy

Fiberglass Firefighting Helmet

NFPA 1971- Compliant

*Use with Eagle II, Eagle III and Eagle IV Firefighting Suits



LASERIES

CUSTOMIZED HELMETS FOR MUNICIPAL FACTORY, VOLUNTEER



VINYL NAME DECAL & D-RING

NFPA COMPLIANT
GOGGLES
OR
FACESHIELD
(NOT SHOWN)



IDENTIFIER
PHOTOLUMINESCENT
MAGNET PANELS



MAGNET PANEL SYSTEM
& REFLECTIVE LETTERING



ESS SNAP ON/OFF OR
STANDARD ATTACHMENT KITS



NOMEX POSTMAN SLIDE,
QUICK RELEASE,
COMBINATION OR
LEATHER COMBINATION
CHINSTRAP



DETACHABLE 8" EARLAPS OR 11"
WILDLAND SHROUD
NOMEX & F/R COTTON



EURO STYLE HELMETS

SICOR "EURO" STYLE HELMETS

NEW

SICOR VFR EVO



- Shell made of thermoplastic material
- Standard colors: white, yellow, red
- With black anonymous front plate
- Reflective face shield and transparent eye screen
- Aluminized neck protector
- Reflecting bands yellow color
- Carrying bag black color



Certified according to the European Standards:

EN 443:2008 Helmets for fire fighting in buildings and other structures

EN 16471:2014 Helmets for wildland fire fighting

EN 16473:2014 Helmets for technical rescue Technical rescue

MED marine equipment



OPTIONAL FLASHLIGHTS

Choose: Pelican 3315

LED Hazardous

Location FM Approved

(3-AA Batteries Included)

Fire Suit Accessories- Hoods and Gloves

TWO-LAYER FIREFIGHTING HOODS TO NFPA 1971-2018

- Two-layer Construction Provides Excellent Heat and Flame Protection
- Non-irritating Lenzing Inner layer and Nomex or PBI outer layer
- “SF” (SURE-FIT) Models Form for Close and Comfortable Face Fit
- Manufactured in the USA
- Black Color Hoods and EN Certified Hoods Available on Request



NOMEX/LENZING

MODEL 3038185

EXTRA-LONG

BIB-CHEST LENGTH

CHEST LENGTH



NOMEX/LENZING

MODEL 3018185-SF

“BEST SELLER”



PBI/LENZING MODEL

3018285-SF

LIGHT BROWN COLOR

PBI OUTER SHELL PROVIDES
EXTRA PROTECTION.



NOMEX

MODEL 3108185

BUDGET MODEL

2-LAYER NOMEX

NFPA 70E : 2012

MODEL	COLOR	LENGTH	NFPA
3018185-SF	WHITE	18 IN.	✓
3038185	WHITE	21 IN.	✓
3018285-SF	LT.BROWN	18 IN.	✓
3108185	WHITE	15 IN.	✓

FIREFIGHTING GLOVES (Firefighting and Rescue) to NFPA and EN Standards

Made of High Quality Leather,
2-layer Kevlar Cuff,
Sizing: M, L and XL



CONSTRUCTION FEATURES:

- Fire-resistant Leather Outer Shell
- Moisture Barrier: High Quality PU
(Prevents Bacterial and Steam Exposure)
- High Quality FR Batt. Thermal Barrier



Honeywell Model GL-7500

3-Layer NFPA 1971-2018

UL Certified Model



Hysafety Model 7888

3-Layer NFPA 1971-2013

SEI Certified



BSP Model Euro VI (Mahero FG 04201)

3-Layer EN 659-2008 & CE

FIRE SUIT ACCESSORIES- FIREFIGHTING BOOTS

HARVIK FIREFIGHTING BOOTS TO EN15090 & CE and NFPA 1071-2018



HARVIK
MODEL 9687L
EN 15090 & CE
 HEIGHT: 15 in. (Approx.)
 Electrical Shock Resistant
 to 18 KV



HARVIK
MODEL 9679
NFPA 1971-2018 and UL
 HEIGHT: 16 in. (Approx.)
 Electrical Shock Resistant
 to 18 KV

Quick Donning Loops

Chemical/Oil and Heat Resistant
 Vulcanized Rubber Upper
 Flame Resistant / Hi-Vis

Heat/Flame Resistant Liner

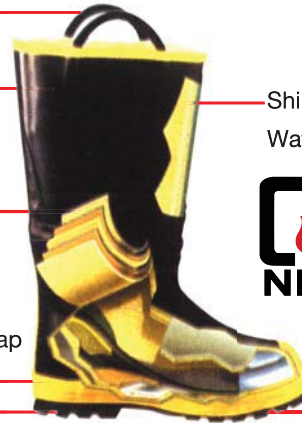
Mdl.9679 - Kevlar

Mdl.9687L - Ceplon

Stainless Steel Midsole / Toecap

Penetration Resistant

Chemical/Slip Resistant Sole



Shin Protection Pad
 Water-Proof



18 KV Electric Shock Resistant

FIREFIGHTING COATS **BSP FIREFIGHTING COAT 40 AND 45 INCH LENGTH**

Model BSP Eagle III 2-Layer Firefighting Coat 40 in. Length

Outer Shell: Nomex III-A

Thermal Liner: Nomex/Aramid Batt

3 in. Silver Reflective Trim Around Chest and Sleeves

Two (2) Side Pockets

NFPA 1971-2000 Compliant

Model BSP Eagle IV 4-Layer Firefighting Coat 45 in. Length

Outer Shell: Nomex III-A

Moisture Barrier: Nomex E-89

Thermal Liner: Nomex/Aramid Batt

3 in. Yellow/Silver Reflective Trim on Chest and

Sleeves (2) places

NFPA 1971-2000 Compliant

FIREFIGHTING ACCESSORIES USED WITH BSP
 EAGLE III AND EAGLE IV

- BSP1500-2000F OR F-500 Firefighting Helmets
- Euro VI Firefighting Gloves
- Harvik 9679 (NFPA) or 9687L (EN) Firefighting Boots
- PGI 3018185-SF Firefighting Hood.



EAGLE III



EAGLE IV

FIREFIGHTING HOSE MANUFACTURED TO BS, NFPA and FM APPROVED

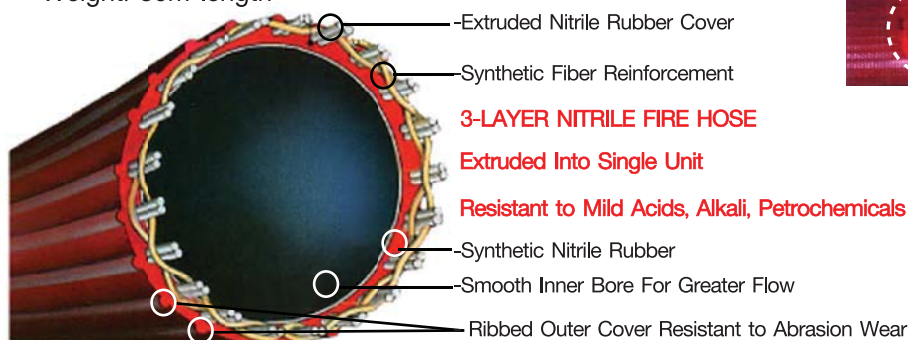
- Three-layer Firefighting Hose Reinforced with Woven 100 % Synthetic Fibers
- Extruded "Through the Weave" Synthetic Nitrile Rubber Inner and Outer Layer
- Smooth Bore Internal Tube, Ribbed Outer Cover For High Performance and Long Life.
- Storage Temperature to 50°C and Working Temperature to 600°C
- Excellent Chemical Resistance. Easy Maintenance, Use, Roll-up and Store.
- Each Length Marked with FM Inspection Code, Test and Compliance Certificate.



ARMTEX
ARMTEX 600 Choose From Two (2) Colors, Red and Yellow

MODEL	DIA.	WORKING PRESSURE	BURSTING PRESSURE	WEIGHT* (KG)
ARMTEX	1 1/2"	300	910	10.0
ARMTEX	1 3/4"	300	900	11.5
ARMTEX	2 1/2"	300	780	18.0
ARMTEX	3"	200	700	21.0
ARMTEX	4"	200	700	36.0
ARMTEX 600	1-1/2"	350	900	14.5
ARMTEX 600	2-1/2"	350	900	22.5

*Weight: 30m length



FIRE HOSE STANDARDS

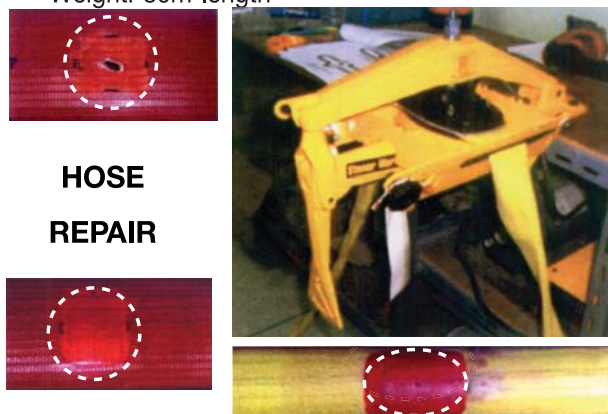
- BURST PRESSURE- Test Performed to Burst Limit, Test Without Couplings
- ACCEPTANCE (TEST) PRESSURE- Test Performed to 66% of Burst Pressure
- WORKING SERVICE TEST PRESSURE- Test Performed with Couplings According to NFPA or BS Standard. NFPA 1961 Working Service Test Pressure for New Hose:
 1.5" Diameter Hose- 300 PSI for 10 minutes
 2.5" Diameter Hose- 250 PSI for 10 Minutes
 4" Diameter Hose- 200 PSI for 10 Minutes



BLINDEX 4-LAYER FIRE HOSE
 (Yellow Outer Cover/Red Inner Tube)

MODEL	DIA.	WORKING PRESSURE	BURSTING PRESSURE	WEIGHT* (KG)
BLINDEX	1 1/2"	350	925	10.8
BLINDEX	2 1/2"	350	780	19.5

*Weight: 30m length



HOSE REPAIR

RUBBER HOSE REPAIR SYSTEM- Repair Armtex and Blindex Hoses

- Repair Holes Caused by Punctures
- Repair Tears Caused by Abrasion
- 2-Layer Vulcanized Repairs. Red and Yellow
- For Hoses 1.5" to 4". For Holes and Tears 1/8" to 2"
- After Repair, Hose Repair is Tested to 200 PSI (13.8 Bar)

EUROPE AND UNITED KINGDOM (ENGLAND) STANDARDS

- BS6391- UK STANDARD
- TYPE 1- Woven Hose
- TYPE 2- Woven and Coated Hose
- TYPE 3- Rubber Extruded Hose
- BS336- British Standard for 2.5" (64mm) Instantaneous Couplings
- TEST STANDARD: 1.5" & 2.5" (22.5 BAR FOR 1 Minute)
- EN STANDARD: EN694 and EN14510 Woven Hose
- SPANISH STANDARD: UNE
- 3RD PARTY INTERNATIONAL TESTING LABS (According to Standards)
- FM, AENOR, Certified Testing Labs

WOVEN FIRE HOSE

ARMTEX HP ATTACK FIRE HOSE

- NEW DESIGN ATTACK FIRE HOSE FOR HIGH FLOW, HIGH PRESSURE REQUIREMENTS
- Double Hose Construction- Woven Outer Hose and Rubber Inner Hose
- Tough 100% Woven Synthetic Outer Jacket Improves Abrasion Resistance, Reduces Kink
- Inner Nitrile Rubber Type 3 Hose (like Armtex) Hose For Increased Water Flow
- Perfect Solution for Interior Fire Attack and Industrial and Municipal Applications

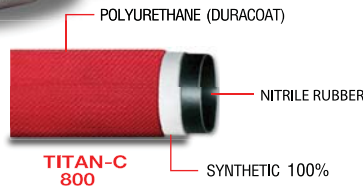
MODEL	DIA.	WORKING PRESSURE	BURSTING PRESSURE	WEIGHT
Armtex HP	1-3/4"	500 PSI	1500 PSI	16.6 KGS.*
Armtex HP	2.5"	400 PSI	1200 PSI	24.6 KGS.*

* Length : 30 meters



WOVEN FIRE HOSE FOR USE IN BUILDINGS OR IN FIRE ATTACK

- Manufactured from 100% High Strength Synthetic Woven Yarn
- Rubber Extruded Liner Tightly Bound To Synthetic Cover
- TITAN C- Red Polyurethane Coating (DURACOAT) Increases Resistance To Chemicals, Oil and Damage from Abrasion Between 50%-70% Compared To Uncoated (White) Woven Hose



TITAN 800	DIA."	WORKING PRESSURE	BURSTING PRESSURE
WHITE	1-1/2"	300	750
	2-1/2"	300	750
TITAN-C 800	DIA."	WORKING PRESSURE	BURSTING PRESSURE
RED COATED	1-1/2"	300	750
	2-1/2"	300	750
TITAN 500	DIA."	WORKING PRESSURE	BURSTING PRESSURE
RACK HOSE WHITE	1.5"	250	500

USA FIREFIGHTING EQUIPMENT STANDARDS

NFPA 1962- Firefighting Hose
 NFPA 1963- Fire Hose Couplings
 NFPA 1964- Firefighting Nozzle
 NFPA 1971-2018 Firefighting PPE

3rd PARTY TESTING INSTITUTES

UL-Underwriters Laboratories
 FM- Factory Mutual
 USA Certified Testing Laboratories



BRASS FIRE HOSE NOZZLES

- 1 Monitor Nozzle- Adjustable Stream-NH Thread
- 2 Fire Hose Nozzle (Adjustable Stream) 2.5" BS336 x 12" Long
- 3 Fire Hose Nozzle (Straight Stream) 2.5" BS336 x 12" Long

MULTIPURPOSE BRANCHPIPE



- Firefighting Nozzle- 3-Way Spray
 Straight Stream, Fog and Combination
 Handle On/Off and Adjustment
 Aluminum Alloy Material Construction

Model CCM 1.5"- 9mm Nozzle Bore- 120 LPM
 Model CCM 2.5"- 12mm Nozzle Bore- 215 LPM

UL/FM HOSE RACK NOZZLES

Prevent Theft With Plastic Nozzles and Caps



BRASS ADJUSTABLE STREAM HOSE RACK NOZZLE
 1.5" NH Threaded Connection
 Straight Stream to Fog Spray Adjustment

PVC ADJUSTABLE STREAM HOSE RACK NOZZLE
 1.5" NH Threaded Connection
 Straight Stream to Fog Spray Adjustment



BS336 FIRE HOSE ADAPTER MALE PLUGS
 CHOOSE: Red Plastic or Black Rubber
 Complete With Chain

HOSE COUPLING

HOSE COUPLING BS336 INSTANTANEOUS, STORZ AND NH (NST) THREADED

BS336- BRASS INSTANTANEOUS (FOR HOSE BINDING)

Working Pressure 300 PSI 5-Year
Warranty on Coupling & Binding



RED HEAD-USA NH COUPLINGS
(EXPANSION RING)

BS336- ALUMINUM ALLOY INSTANTANEOUS



BS336 Types:

1.5" Hose x 2.5" BS336
1-3/4" Hose x 2.5" BS336
2.5" Hose x 2.5" BS336

TITAN BRAND NH HOSE ECONOMY
COUPLINGS (EXPANSION RING)



FIRE HOSE COUPLING
GOST 2"



Fire Hose Couplings 1.5", 1-3/4" and 2.5"
Brass and 1.5" -5" Aluminum Alloy



Fire Hose Couplings 1.5"
Rack Hose Couplings 1.5"



Red Head
4" Storz
German Storz
1.5" - 4"

COUPLING SIZE CHART- BS336 INSTANTANEOUS, NH, STORZ, PIPE THREAD

INSTANTANEOUS BS336		STORZ (SWEDEN) (STORZ)		HOSE SIZE	COUPLING SIZE	NATIONAL STANDARD NH (NST)*		STRAIGHT IRON PIPE NPSH (IPT)		BRITISH STANDARD BSPT	
DIA	COUPLING	DIA	COUPLING	DIA	DIA	ODP	TPI	ODP	TPI	ODP	TPI
1.5"	1.5" / 2.5"	1.5"	1.5" / 2.5"	1.5"	1.5"	1.990	9	1.8788*	11 1/2	1.882	11
2.5"	2.5"	2.5"	2.5"	2.5"	2.5"	3.0686	7 1/2	2.841*	8	2.960	11
4"		2.5"	2.5"	4"	4"	5.0109	4	4.470	8	4.450	11

HOSE COUPLING INSTALLATION (HOSE BINDING AND EXPANSION RING)



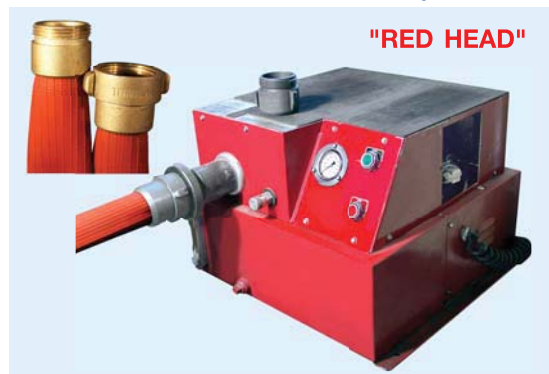
BRASS ALUMINUM ALLOY

BS336 Instantaneous Couplings are
Installed: Inner Fabric Protection, #16
Stainless Steel Wire Binding and
Rubber Sleeve



E-Z BINDER HOSE BINDING MACHINE

Wire Bound Couplings Are Bound
With a Motorized High Tension Binding Machine.
Pressure Tested to 300 PSI



RED HEAD-USA BRUTE MODEL HOSE COUPLING INSTALLER

Installs Hydraulic Expansion Couplings 1.5" -5"
For more information: www.redheadbrass.com

FIREFIGHTING ACCESSORIES



3-WAY WYE VALVES

- Use with 2.5" Delivery Hose NH/BS336
- 1.5"-2" NH or 2.5" BS336 Outlet
- Aluminum Alloy or Brass Construction
- Ball Valve or Slide Shut-Off
- Optional Connections as Specified



WYE VALVES THAI



RED HEAD USA
Mdl. 272NL

Select NH or BS336 Connection

FIRE TRUCK/ HYDRANT CONNECTIONS

Threaded Reducers Brass-Chrome Plate



4" TH x 3" TH
4" TH x 3.5" TH



4" TH x 4" TH

ADAPTERS LOCAL BRASS & CHROME PLATED



Threaded Reducers
Brass-Chrome Plate
4" TH x 2.5" BS336



BS 336 (F) x 2.5" Thread



BS 336 (F) x 1.5" Thread



BS336, BS (th), NH,
Storz, ADAPTERS

ADAPTERS IMPORTED
(Aluminum)



Brass/Plastic BS336 Plugs



Brass BS336 Caps

Truck Mounted Monitors



4" Flange or 3" Threaded
Connection Straight Stream
Pipe or SS/Fog Adjustable Nozzle



BS 336
ADAPTER

GIACOMINI : A55 ANGLE HOSE
VALVE 300 lb. RATED



Threaded Hydrant Connection
4" Inlet x 2-2.5" Outlet Cast Iron



Threaded Fire Department
Connection
4" Inlet x 2-2.5" Outlet
Polished Brass

WRENCHES

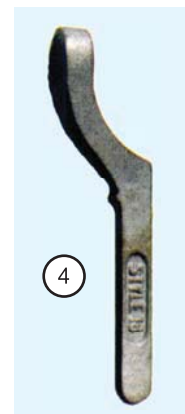
- 1 Red Head P/N 101 (1" - 6" Pin or Lug)
- 2 Red Head P/N 105 Hydrant/Coupling
Hydrant 1.7/8"-1.5" & 1"-6" Coupling
- 3 P/N BEC W-580 Hydrant/Coupling
- 4 P/N FIR-04 Aluminum Pin Lug Suction Hose
- 5 P/N FIR-04 Brass LH Lug Suction Hose
P/N FIR-T T-Style LH Valve Wrench



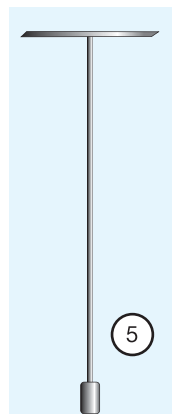
RED HEAD
P/N 101 & P/N 105



BEC W-580



FIR-04
FIR - 0304



FIR - T

FIREFIGHTING NOZZLE VIPER RYLSTATIC

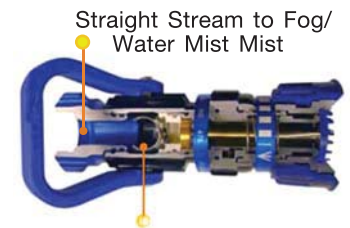
**NEW
TECHNOLOGY**

NOZZLE “RYLSTATIC” FIREFIGHTING STREAM : “STRAIGHT”, “FOG”, “FOAM”



Viper

RYLSTATIC DESIGN TECHNOLOGY



- Smooth Bore Waterway
- Double Machined Seats Contact with Stainless Ball Valve for Smooth On/Off Pulse Operation
- Rylstatic Technology Eliminates Spinning Teeth Allows For Water Mist. Suitable for Foam

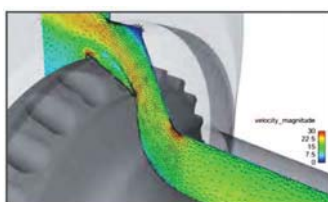
NFPA 1964 Compliant. EN-15182-1 And EN 151824 Type 3 Approved

Viper Nozzles Flow Data

Model	Nozzle	Nozzle	Flow		Pattern	Reach Distance		Weight	Length
	PSI	BAR	GPM	LPM	Straight St.	Feet	Meters	Lbs.	Inches
BD-1560	580	40	55	210	Straight St.	112	34	3.8 (1.72)	8
BD-3012	580	40	123	465	Straight St.	141	43	4.2 (1.91)	9.25
BD-7515	100	7	150	560	Straight St.	148	45	4.2 (1.91)	9.25
BD-9520	100	7	200	750	Straight St.	154	47	6.6 (3.0)	10.80

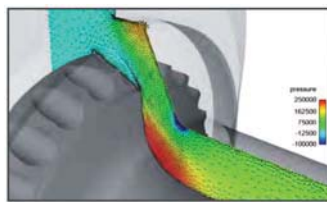
BD-3012 (115-230-360-465-LPM) 1.5 NH INLET BD-1560 (50-100-160-210) -LPM
BD-7515 (280-360-470-560-LPM) 1.5 NH INLET BD-9520 (360-470-560-750) -LPM

“RYLSTATIC” TECHNOLOGY IMPROVES PERFORMANCE



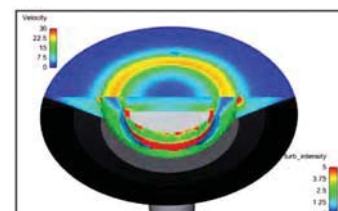
WATER VELOCITY

Less Friction Loss,
4.5% Increased Reach



STATIC PRESSURE

Reduced Static Pressure
Stable Flow From Straight to Fog



FOG PATTERN

Smaller Water Drops
Dense Fog/Water Mist

FIREFIGHTING NOZZLE VIPER BRAND

ATTACK NOZZLE WITH ADJUSTABLE FLOW AND FIRE STREAM

Viper

VIPER FOAM ACCESSORIES

(For Use with Viper and Rylstatic Nozzles)

FOAM TUBE

BYPP FOAM EDUCATOR

(230LPM, 360LPM- X 3% & 6%)

FOAM TUBE

EDUCTOR

For Use With AFFF
Foam 3% and 6%

-Flow Select Ring- 4 Flows

- Molded Carbon Composite Ball Valve
with HD Thermoplastic On/Off Handle

BS 336

GOST 2"

JET
-Stream Adjustment Ring
Fog to Straight Stream
Spray Pattern

ISO 9002

- NH Threaded or Instantaneous Hose Connection

- Pistol Grip With Easy-Grip Profile

-Light-weight Aluminum Alloy Body

Viper

Nozzles Flow Data

Model	Nozzle	Pressure	Nozzle	Flow	Stream	Reach SS		Weight Lbs.	Length in.
	psi	bar	GPM	LPM		Feet	Meters	(Kgs)	
SG-3012	100	7	125	475	Straight	141	43	4.3(1.95)	8.85
SG-7515	100	7	150	600	Straight	148	45	4.3(1.95)	8.85
SG-9520	100	7	200	800	Straight	154	47	6.6(3.0)	11.20

SG-3012 (115-230-360-475 LPM)

SG-7515 (265-380-500-600 LPM)

SG-9520(350-500-600-800 LPM)

SPECIAL USE NOZZLES: SELECT FLOW, BRANCHPIPES, WATER CURTAINS

PROTEK HANDLINE

Instantaneous or NH Hose Connection



NFPA 1964 Compliant & FM

Model 366 (30/60/90/120 GPM)

Model 367 (95/125/150/200 GPM)

WATER CURTAIN



WATER CURTAIN HOSE CONNECTION

1.5" NH & 2.5" Instantaneous

Model 3265- 1.5" Waterway (800LPM) X=26m, Y= 7m

Model 9380- 2.5" Waterway (1200 LPM) X=32m, Y=10m

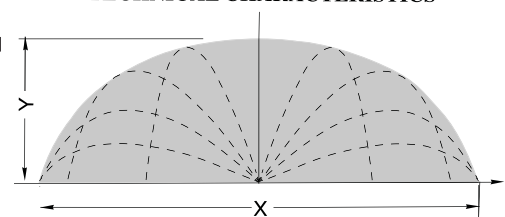
HIGH PRESSURE BRANCHPIPE



MODEL 9375- 1" BSPT Hose Connection

For Use With High Pressure Hose Reel to 40 Bar
Dual Pistol Grips for Safe Use at High Pressures
Straight Stream and Fog Flow Pattern

TECHNICAL CHARACTERISTICS



For More Information: www.tipsa.com

NOZZLE FLOW DATA

MODEL	PRESSURE BAR	FLOW	STREAM	REACH SS	WEIGHT (KGS)	LENGTH
PROTEK 366	7 BAR	120 GPM	SS	35m	1.7	228 mm
PROTEK 367	7 BAR	200 GPM	SS	35m	2.6	259 mm
POK 9375	40 BAR	200 LPM	SS	25m	2.8	520 mm

DELTA FIRE FOAM APPLICATION EQUIPMENT

DELTA  **FIRE**



DELTA MOBILE FOAM UNIT MODEL DF 130

*IDEAL FOR PETROCHEMICAL & CHEMICAL STORAGE

130 L Wheel Foam Cart with Foam Inductor and Branch + Hoses (2)

Delta Inline Inductor Variable For AFFF, AFFF-AR and FFFP Foams 1%-6%

Optional Inline Inductor and Foam Branch 225lpm or 450LPM

BS336 Connection Standard or Optional Threaded, Storz or Q/C

Connections. Lloyds Registered and ISO 9002

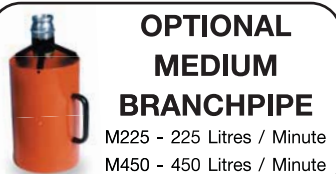
DUAL EXPANSION FOAM BRANCHPIPE



IDEAL FOR CHEMICAL SPILL RESPONSE*

For Use with Delta Inline Foam Inductors
Dual Expansion Foam Branch Pipes Can
Be Switched Between Low and Medium Foam
Expansion by Moving a Lever. 3% OR 6%
Foam.

Model L/MX 225 Application Rate: 225 LPM



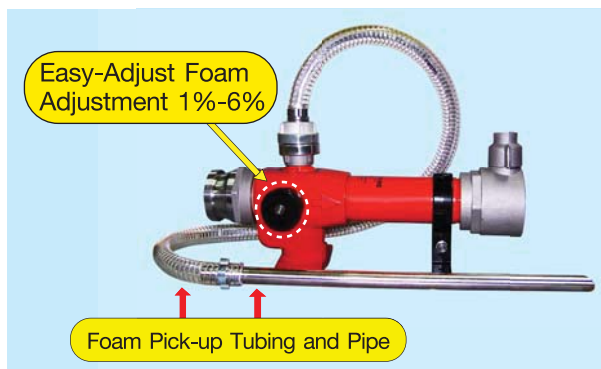
OPTIONAL MEDIUM BRANCHPIPE

M225 - 225 Litres / Minute
M450 - 450 Litres / Minute

GRP- Long-life
Fiberglass Reinforced Plastic

DELTA FOAM INDUCTORS

For AFFF AFFF-AR and FFFP Foams 1%-6%



Easy-Adjust Foam
Adjustment 1%-6%

Foam Pick-up Tubing and Pipe

Model Z 225-Application Rate: 225 LPM

Model Z 450- Application Rate: 450 LPM

Model Z 900- Application Rate: 900 LPM

HV (S) SERIES LOW EXPANSION FOAM BRANCH PIPES



For Use with AFFF, AFFF-AR & FFFP Foams
Standard HV Model Used with In-Line Inductors
Self-Inducting "S" Stand Alone (Built-in Foam
Inductor)

2.5 in. BS 336 Inlet. DOT & Lloyds Standard
HV 225/ HV 225S 225 LPM @ 7 Bar
HV 450/ HV 450S 450 LPM @ 7 Bar
HV 900/HV 900S 900 LPM @ 7 Bar
HV Model HV "S" Self-Inducting

HIGH EXPANSION FOAM GENERATOR



IDEAL FOR WAREHOUSES, AIRPORTS UNDERGROUND SPACES & CONFINED SPACES

Combination Blower, Foam Inductor and Foam
Net.

High Expansion Application to 200 L/min.

Expansion of Hi-Ex Foam to 1,200 x volume

Low Water Percentage Limits Water Damage
Model Delta "Excel" (Optional: Smoke Ejector
Tubing)

*Must Use with Delta HI-EX High Expansion
Foam (21 L/pail) *

FAST ATTACK FOAM NOZZLE



IDEAL FOR CHEMICAL RESPONSE & FIREFIGHTING*

For Use with Delta Inline Foam Inductors
Slide Adjustable Head for Narrow or Broad
Foam Application

Model DFA 225 Application Rate 225 LPM

Model DFA 450 Application Rate 450 LPM

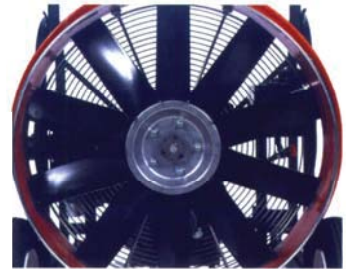
TEMPEST PPV BLOWERS FOR FIREFIGHTING AND INDUSTRY

Tempest Positive Pressure Ventilation (PPV) Clears Smoke, Heat, Dust, Chemicals With A Powerful Force of Blown Air or Suction Smoke Together with the Ventilation Duct. AMCA Tested and Approved. Available as Engine or TEFC Electric/Electric EP.

DIRECT DRIVE



FLIP-UP
FOLD-DOWN



'AIR-FLEX' HIGH FLOW
COMPOSITE IMPELLER

" WINNING STEP "

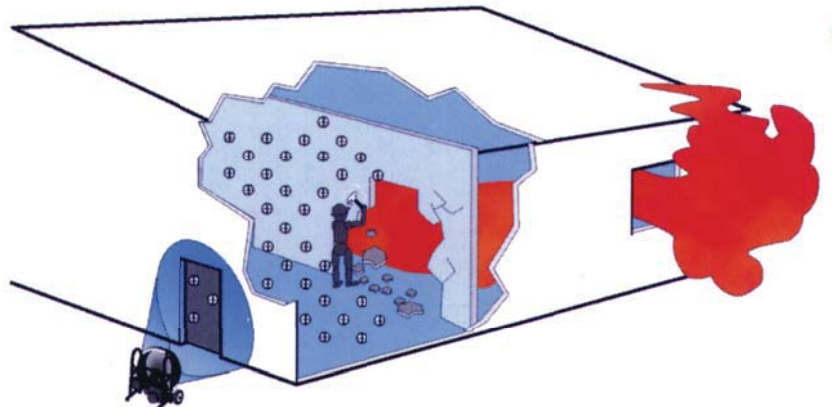
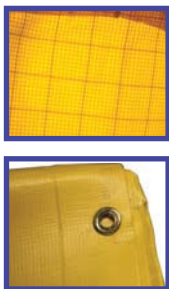
DIRECT DRIVE ENGINE DRIVEN MODELS (Choose Briggs and Stratton or Honda)

Model	Impeller Size Inches	HP	AMCA Tested CFM	Weight (Kgs./Lbs.)
DD 18-B-5.5 (910-1121)	18	5.5	14,341	83/38
DD 21-B-5.5 (910-1141)	21	5.5	18,025	87/39
DD 24-B-5.5 (910-1161)	24	5.5	19,232	97/44

Model	Impeller Size Inches	HP	AMCA Tested CFM	Weight (Kgs./Lbs.)
DD 18-H-4.8 (910-1120)	18	4.8	14,773	85/39
DD 21-H-5.5 (910-1140)	21	5.5	20,152	90/41
DD 24-H-5.5 (910-1160)	24	5.5	19,606	99/45

ANTI-STATIC, LAY FLAT BLOWER TUBING

(For Use in Smoke Ejection & Confined Spaces)
Standard Length 25 ft. (7.65 m) Extend Length by Joining
25 FT. (7.65M.)



8440-20	Use with 18 in. Blower
8440-22	Use with 20 in. Blower
8440-26	Use with 24 in. Blower

PPV VENTILATION IN LARGE WAREHOUSE

COLTRI BREATHING AIR COMPRESSORS

COLTRI SCBA AND SCUBA CYLINDER FILLING MACHINES

Fill Air Cylinders 200 & 300 Bar (2215-4500 PSI). 3 Stage Compressor Filling Rates 100-265 LPM.
10-20 minute/ Cylinder Filling Times Air Quality: DIN 3188 and EN12021. ISO 9001:2008 One (1) and Two (2) SCBA or SCUBA Filling Lines Models Available with Gasoline Engines or 230V-380 V Motors
Options Include Hour Meters, Filling Cabinets (Water Filled)



MCH 6/EM

MCH 6/SH

MODEL MCH6/SH and MCH6/EM-PORTABLE MODELS

TYPE: MCH6/SH (5.5 hp Engine) and MCH6/EM
(230/1/50 2.2 Kw Motor)

Charging Rate: MCH6/SH-100LPM (6 m³/h)

Charging Rate: MCH6/EM - 80LPM (4.8 m³/h)



MCH 11 SH

MODEL MCH11 SH and MCH11 EM - PORTABLE MODELS

TYPE: MCH11 (8 HP Honda)
MCH11 /ET (230/1/50 4 Kw Motor)

Charging Rate: 195 LPM (11.7m³/h)

Charging Pressure: 200/300 Bar (2216-4500 PSI)

Dimensions (Approximately) : 84x 89 x 60 cms.

Weight: (99 Kgs.)



MCH 13/16 ET



HOUR METER

MODEL MCH16/ET (USE FOR FILLING CYLINDERS AND CASCADE SYSTEMS)

TYPE: MCH16/ET (380/3/50 7.5 HP 5.5 Kw Motor)

Charging Rate: MCH16/ET-265LPM (16 m³/h)

Charging Pressure: 200/300 Bar (2216-4500 PSI)

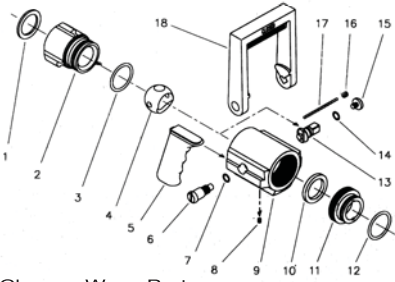
Filling Time (Approx.): 6.8L (0-300 Bar) 8 min. 50L (0-300 Bar)
60 Min.

Dimensions (Approximately): 64x113x40 cm. Weight::160 Kgs.



TOTAL CARE, TRAINING, SALES, SERVICE FIRE, RESCUE, SAFETY

FIREFIGHTING NOZZLE REPAIR & TEST



- * Change Worn Parts
- * Clean and Lubricate
- * Test Flow and Volume
- * Test Nozzle Function



HOSE TESTING OF NEW and REPAIRED HOSE

Hose Tested to NFPA 1961 or BS 6391 Standards

Hose Testing of BS336 and Threaded Couplings

Test Certificate and Stencil on Hose Provided



COUPLING INSTALLATION & HOSE TEST

Install Wire Bound and Expansion Ring Couplings

Vulcanized Hose Repair of Rubber Hoses

Hydrostatic Testing of All Fire Hoses



RECHARGING OF DCP, CO2, LIQUID FILLED EXTINGUISHERS

- Recharge Extinguishers to Correct Weight, Pressure, Rating
- Firefighting Chemical
- Repair and Replace Worn and Defective Parts
- Hydrostatic Testing of CO2 and DCP Cylinders

SCBA INSPECTION, CYLINDER TESTING AND REFILLING

- * Inspection and Repair of Most Brands of SCBAs'
- * Repair and Replace Worn and Defective Parts
- * Hydrotest of Compressed Air SCBA Cylinder
- * SCBA Proper Use and Inspection Training

FOAM TESTING AT UK CERTIFIED LAB TO BS AND EN STANDARDS



AMKUS HYDRAULIC RESCUE TOOL TRAINING and REPAIR



- Vehicle Rescue Extraction Training and Safe Operation
- Set-up and Patient Safety
- Maintenance and Proper Use of Amkus and Paratech Rescue Equipment



FIREFIGHTING SUIT REPAIR

- Repair and Replace Worn and Damaged Shell Material
- Replace Worn and Damaged Trim (Reflective, Leather, Fabric)
- Replace Thermal and Moisture Lining on all BSP Brand Suits
- Helmet Repair and Replacement of Defective and Damaged Parts

SERVICE EQUIPMENT



E-Z BINDER- HOSE BINDER

Motorized Wire Hose Coupling Binder. Tightly Bind Wire BS 336 And All Couplings with Hose Ends 1-4 inches.



RICE HOSE TESTERS-1-4 OUTLETS

Test Hoses to 500 psi (34 Bar)
Fire Hoses Hydrostatically Tested To NFPA 1961 and BS Standards
Mdl. EL-FHT (2 Outlet) and FHT (4-Outlet)



STENOR HOSE REPAIR SYSTEM

Repair Holes and Cuts in Extruded Rubber Firefighting Hose 1-6 inches
Red and Yellow Repair Patches
200 PSI (13.7 Bar) Working Pressure.



SCBA & SCUBA CYLINDER FILLING MACHINE



SCBA AND SCUBA CYLINDER FILLING MACHINE

Fill Air Cylinders 200 & 300 Bar (2215-4500 PSI)
Filling Rates 100-265 LPM. 10-20 minute/ Cylinder Filling Times
One (1) and Two (2) SCBA or SCUBA Filling Lines
Models Available with Gasoline Engines or 230V-380 V Motors
Options Include Hour Meters, Filling Cabinets (Water Filled)



VANZETTI

FILLING MACHINES

TOTEM-T 12-15 Kg/MIN

TOTEM MINI - E 8-10 Kg/MIN

E-Z CLAMP STATION

WATER FLOW KIT

- U.L. classified for testing
- Six machined tips measure flows ranging from 110-1600 gpm (400-6000 lpm) at 40-120 psi (280-830 kPa)
- Holds pitot tip firmly in correct stream position
 - eliminates many variables caused by hand-held units
- 1% full range accuracy
- Complete with tough, molded carrying case, instruction booklet and laminated flow chart
- U.S. standard measurements or metric equivalents
- Standard tip Sizes: 1/4", 1 1/4", 1 1/2", 1 3/4", 2", 2 1/4"
- Style FK-25



PITOT GAUGE

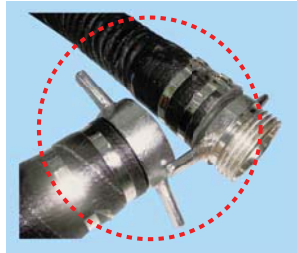
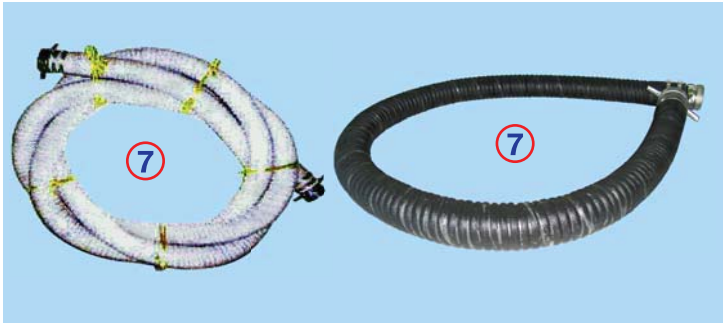
Measures straight tip pressure to determine flow or pumping capacity. Blade is calibrated for various tip sizes.

- Style HH-Pitot
- Petcock for bleeding off air
- Includes Style 91000 Fire Stream/Friction Loss Calculator and protective carrying case
- Weight: 4 lbs.

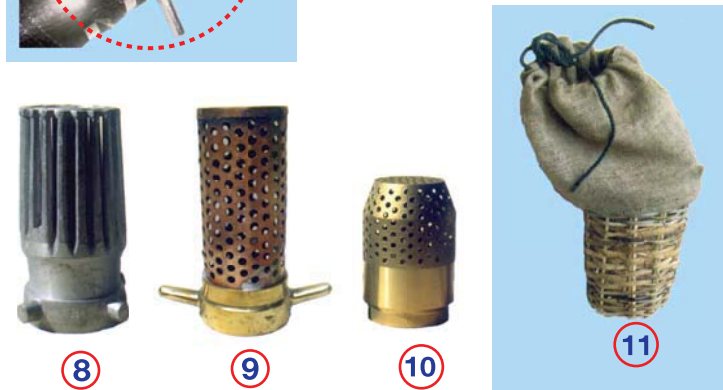
STYLE HH - PITOT
With Style 91000 Fire Stream/Friction Loss Calculator



PUMP & ACCESSORIES



BAND - IT



Assembled with Band-It Bands and Clamps or Screw Clamps

- (7)** Hard Suction Hose in White or Black. 3 in, 3.5 in and 4in.
Diameter Lengths available 3m and 9m.
Various Suction Coupling Threads Available.
- (8) - (9)** Suction Strainer in 3 in., 3.5 in. and 4 in.
Available in Aluminum and Brass (9)
- (10)** Suction Strainer with Foot Valve.
- (11)** Basket Strainer for Covering Metal Strainer

DIESEL DRIVEN FIRE PUMP- Model YDP20MHE

- Standard for Use in Boat and Vessels
- Yanmar 4.7 H.P. Diesel Engine. 3,600 R.P.M.
- 12 v. Electric Start and Recoil Pull Start
- Impeller Pump with Electric Suction
- Capacity: 500 LPM at 7 M.
- 2" (50MM) SUCTION HOSE (9 M) + FOOT VALVE & STRAINER
- NON-CORROSIVE FEATURES AND FRAME + COVER
- Weight: 40 KGS. Foam Nozzle (Optional)
- Durable and Comfortable Water Sack and Carry Straps

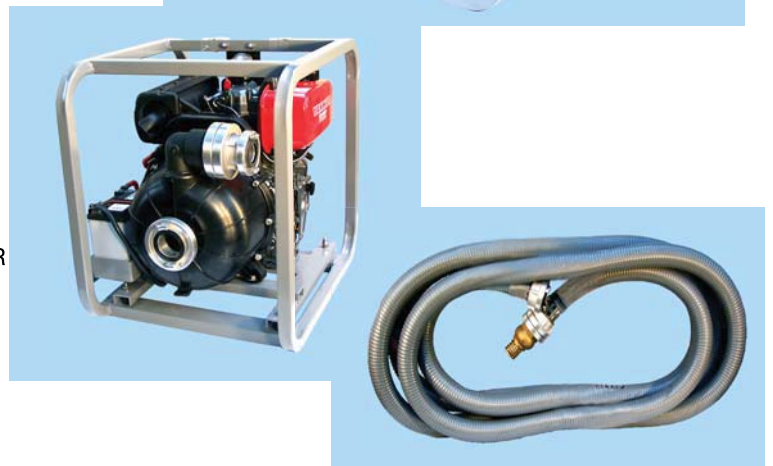


DELIVERY HOSE LAY-FLAT OR HARD SUCTION

- (1)** ARMTEX 4"-6" Lay Flat Delivery Hose and Red Head Delivery Hose Couplings 4-6" NH
(Red Head Storz Couplings Available)

COUPLINGS AND ADAPTERS

- (2)** Red Head Style 7700 Rocker Lug or LH (Female) (2)
Red Head Style SKT Kwik-Tach Storz Couplings 4 in. -12 in.(2)
- (3)** Red Head Double Female Adapter (Rocker Lug or LH)
-Style 299- LH Female Suction Hose Coupling
-Style 53RL- Rocker Lug Swivel F x Rigid Female (4)
-Style 35- Double Swivel Female Rocker Lug (5)
-Style 57- Double Long Handle Female (Swivel x Swivel) (5)
-Style 37- Rigid Rocker Lug Female to Male



RESCUE EQUIPMENT



SPINE BOARDS "USA Made"

① **JSA-365** Spine Board. 12 Hand Holes for Easy Lifting. **JSA-365S** (Speed Clips) One-piece Construction. Built-in Runners on Bottom Protects Spine Board and Patient.

X-ray Without Removing Patient from Spine Board. Capacity 400 lbs. (182 Kgs.) Length: 72 in. (183 cm). Width 16 in. (41 cm). Thick: 1.75 in. (4.5 cm) Suitable for Confined Space and Vehicle Rescue.

Accessories:

- ② **JSA-363-BF** Head and Neck Immobilizer. Head Support Attaches to Spine Board by Velcro Straps. Adjustable with Ear Holes. Removable Pads for Smaller Heads.
- ③ **JSA-360-S** Adjustable Locking Straps with Q/R "Seat Belt" Locking Mechanism



FIRE BLANKETS

(Fire and Wool Wrap - around Extinguishing)

JUNKIN JSA1002

Wool Fire Blanket

100% Wool. Extinguishes Fire by Wrapping Around Person, Water Immersion Not Required.

Size: 62" x 82"



① WATER-JEL COATED FIRE BLANKET

Water-jel-Medicated Jel Coated Fire Blanket

Extinguishes Fire and Protects Burns on Persons.

Size: 6 ft. x 5 ft. (183 x 152 cm)



MADE IN U.S.A.

JUNKIN STRETCHERS- "USA Made"

① JSA -601-NA "EASY-FOLD" ALUMINUM POLE STRETCHER

Length: 86". Light Weight: 14 lbs. (6.4 Kgs.) Capacity: 300 lbs. (137 Kgs)

Wooden Handles, Aluminum Frame, HD Green Vinyl Coated Nylon Base (Clean & Disinfect)

② JSA-602 "EASY FOLD" "WHEELED" STRETCHER

Length: 74". Light Weight: 13 lbs. (6.0 Kgs.) Capacity: 300 lbs. (137 Kgs)

Wheels, Aluminum Frame, HD Green Vinyl Coated Nylon Base (Clean & Disinfect)

③ JSA-603 "EASY FOLD" LAY FLAT STRETCHER

Length: 74". Light Weight: 13 lbs. (6.0 kgs.) Capacity: 300 lbs. (137 Kgs)

Wheels, Aluminum Frame, HD Green Vinyl Coated Nylon Base (Clean & Disinfect) (Layout style. Same as JSA-602, without wheels)

④ JSA-400 ALUMINUM BREAK-APART STRETCHER

Stretcher separates side-to-side & length to length. Use where patient cannot be lifted or rolled without further injury. Stretcher can be separated in middle for x-ray. Includes three (3) restraint straps.

Length Adjustable: 49.5" to 80". Light Weight: 21.5 lbs. (9.8 Kgs.) Capacity: 400 lbs. (181 Kgs). Aluminum, Frame Lay-at style. Can be cleaned & disinfected

⑤ JSA-300 + JSA-302 + JSA-300X BASKET STRETCHER C/W COMFO-PAD & SLING

Light-weight basket stretcher. Three (3) restraint straps. JSA-302 Comfo-pad orange HD vinyl provides cushion for patient. Can be cleaned and disinfected. JSA 300X Bridle Sling allows stretcher to be lifted horizontally or vertically. Capacity 2,000 lbs. (909 Kgs.) Length: 80.5". Width: 22.5" Weight Stretcher: 31 lbs. (14.0 Kgs.) Capacity: 300 lbs. (137 Kgs)

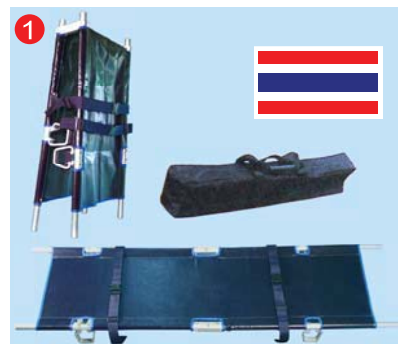
Includes: Basket Stretcher, Pad, Sling. (Can be used with Eze-Man Tripod)

⑥ JSA- 300CS+ 302 +300X "CS" BASKET STRETCHER C/W COMFO-PAD & SLING

19 in. wide (7.5cm) for use in Confined Space Rescue. Same construction details as JSA-300 Length: 81.5". Width: 19" Weight Stretcher: 23 lbs.(10.5 kgs.) Capacity: 300 lbs. (137 kgs)

Includes: "CS" Stretcher, Pad, Sling. (Can be used with Eze-Man Tripod)

Note: All Junkin Safety Stretchers are manufactured in the USA and certified under Mil-Spec and 3rd Party Test reports.



② TOP-SPEC COATED EXTINGUISHING BLANKET

Synthetic -Glass Reinforced and Coated

Fire Retardant Fire Blanket Puts Out Fires

Without Chemicals or Water. Storage Case Included

Sizes 1.2 x 1.2m, 1.2 x 1.8m and 1.8m x 1.8M



THAILAND MADE FOLDING STRETCHERS

① **Model TH001** Aluminum Frame/ Vinyl Base Straps and Carry Bag Included.

② **Model TH002** Economy Stretcher Aluminum Frame / Vinyl Base Folds Lengthwise

EMERGENCY ESCAPE RESCUE EQUIPMENT

ESCAPE-RITE AUTOMATIC DESCENT SET



ESCAPE-RITE MODEL 1003

- Allows for Emergency Escape with Minimum Training
- Automatic Descent at Rate 1 Meter/ 1 Sec.
- Strong, Heat and Fire Resistant Poly Steel Coated Cable
- Maximum Length (300 ft.) (100 meters) or 30 Story Building (Approx.)
- Double Adjustable Belts Allow for Rapid Alternating Descent
- Made in the USA with Safety Test Certificate and Operation Manual



Directions for use:

1. Attach Escape-Rite to Fixed Point
2. Place belt below arms & around chest
3. Grip tightly and descend to ground
4. As the person lowers, the second belt ascends.
5. No special training, Automatic controlled descent



Locations for Emergency Escape:

1. High rise buildings
2. Hospitals, Hotels, Department Stores
3. Power Plants, Refineries, Construction Sites
4. Use together with Full Body Harness & Basket Stretcher

THE LIFE CUBE™ RESCUE JUMPING CUSHION

- For Use in Catching Persons jumping or falling from up to 10 stories
- Light-weight and Durable Flame Resistant Fabric Construction
- Inflatable tube structure that inflates with use of Air Cylinder (no need for fans, generators or electrical connections to operate)
- Light-weight, Quick set-up, Moveable without deflating, Safe
- DIN 14151 Standard. English Instructions, On-site Training.



1. Move to jump site and unpack. (0 seconds)



2. Open Valve 8L, 300 Bar air cylinder to inflate (3 seconds)



3. Life Cube™ Takes Shape (25 seconds)
Fully Inflated (30-35 seconds)



5. First Jump (40 seconds)



4. Ready for First Jump (30 seconds)



6. First Jump Completed (45 seconds)
Ready for Second Jump

TOOLS FOR RESCUE & FIREFIGHTING



MODEL FIR-2000 MULTI-FUNCTION TOOL SET

Tools Set Includes: Screwdriver Set (Straight & Phillips) Drilling Hammer, Hacksaw and Blades, Folding Shovel Cutting Plier, Adjustable Wrench, Cable Cutter, Duct Tape Plug Seal Kit, Seat Belt Cutter, Pry Bar, Optional: Biel Tool



PARATECH MDL. 715

HAZMAT PLUG KIT

Plug Leaks 3/4" – 4". Wood Plugs x 3.
Rubber Plugs x 3.
Non-Sparking Hammer + Box



PARATECH 700 SEAT BELT CUTTER

Slices Woven Seat Belts for Vehicle Rescue Metal Tip "DZUS" for Breaking Non-laminated Glass Easy-Grip Handle. Length: 24cm. Weight: 5 Kgs



SOS RESCUE TOOL SET

16 Function Rescue Tool Set. Cutting, Prying, Piercing, Digging Functions with Interchangeable Head and Handles. 12 Pieces per Set.

① P/N 80001- Set Contents in Vinyl Holster

② P/N 80002- Set Contained in Plastic Case



TEMPEST MODEL 375K VENTMASTER CUT-OFF SAW

Cuts Metal, Block, Concrete. Cutting Capacity to 14 in. Cutting Depth 4.75 in. 5Hp (74.7cc) 2-Stroke Engine Metal, Concrete and Carbide Rescue Saw Blades Incl.

Optional: Metal Carry Case, Gas Can and Tool Kit



CHAIN & CABLE CUTTERS- 24" USA MADE

P/N 0190FC Electric Cable Cutter- Fiber Handle

P/N 0190MC Electric Cable Cutter- Metal Handle



FIRE AXE- Thai Made* and Import

P/N FIR-03 14 in. Personal Axe

w/ Sheath*

P/N FIR-06 14 in. 6 lbs Axe x 36" Long*

P/N 406x Fire Axe (Wood or Fiberglass Handle)



PRY BARS- Pry, Pull, Lift

P/N 41004 36 in.

Gooseneck- USA

P/N FIR-120 1.2m

Straight Pry Bar



FIRE LADDERS (Aluminum and Fiberglass)

P/N AE 4000 Extension Ladder Fiberglass 20-40 Ft. (6-12M)

FIR-101520 Thai Made Single Ladders to 12' (3.6 M)

FIR-15 Thai Made Extension Ladders- to 15' (4.5M)



FIRE STRIKING (SLEDGE) HAMMERS

P/N 62-327 Drilling Hammer 6 lbs./ 16" Long

P/N 1438G Sledge Hammer 10 lbs./36" Long

P/N FIR-08 Thai Made Sledge 8 lbs./36" Long

TOOLS FOR RESCUE & FIREFIGHTING



MISUMI MDL. MP-6 MEGAPHONE WITH SIREN
80 WATT MAX OUTPUT
HANDHELD CONTROL UNIT (SPEAK/SIREN)
EASY GRIP HANDLE. LENGTH: 23 CM
220 V. RECHARGE

**FIR-300 3M-2-SECTION WOODEN HANDLE
PIKE POLE**
Suitable Tool for Pulling Down Articles from High
Storage Racks and For Pull Down Gypsum to
Extinguish Fires Inside Walls and Ceilings.
Optional: Fiberglass Pike Poles and Trash Hooks
(Special Order)



**JSA-20-05 Junkin Mdl. JSA-20-05 4 Size
+ Bag (Re-Usable)**
- NEC LOC is a Two-Piece Design Constructed of
Rigid Polyethylene Plastic with Front Piece Locking
Strap Allows for Maximum Support and Stability.
Has Trachea Opening, is X-Ray Lucent, and is
Available In Four Color Coded Sizes.
- Maneuverable Chin Piece Allows for Airway
Maintenance Without Loss of Immobilization.
- Can Be Easily Applied, Adjusted or Removed in
Either Sitting or Supine Positions with Little
Movement.
- The Kit Consists of 4 Units (1 Ea. Size) And Is
Packed in a Handy Waterproof Vinyl Coated Nylon
Storage Case.
- Ideal for Use in Conjunction with JUNKIN VM
Head and Neck Immobilizer.



GENFO BACK PACK
Back-Pack Water
Extinguisher
19 lt. (5 USG) Capacity
Flame Resistant Flex
Material
Nozzle Pump. Jet/Fog
Stream



**JSA-18-20 Junkin Mdl. JSA-18-20-06
Air Splints + Bag (Re-Usable)**
Consists of Six Inflatable Splints for Immediate First-Aid
Treatment of Sprains, Fractures, Dislocations, Cuts, Burns
and Related Injuries. Features Heavy Gauge Two-Walled
Transparent Vinyl Construction. Zipper Type with Twist
Type Air Valves and Reusable.

PARATECH RESCUE STRUTS



PARATECH RESCUE STRUTS

Strut Kits Stabilize Buildings, Trenches and Vehicles
Where the Safety of the Injured and the Rescue Operator
and Operator is Most Important. Air Operated Sets
Include the Strut, Base, Tip and Control Equipment.
Manual Sets Can be Quickly Set-up and Placed
As Required. Many Specialized Sets Available for Vehicle
for Every Requirement



PARATECH Mdl. 796984 ABSOLUTE RAKER SET

6 FT./ 1.8m Deployable Absolute Raker
Set 53 Pc.
Set Suitable For Stabilizing Walls and
Structures to 1.8m Easy Set-up.
Expandable with use of Paratech
Interchangeable Struts and Support
Systems.



PARATECH Mdl. 22-796430 SHORING HAMMER

Multi-function Hammer, Wrench and Prying Tool.
Use together with Paratech Strut Systems

**PARATECH Mdl. 22-796852
Paratech HIGHWAY VSK KIT**
Vehicle Stabilization Kit 26
Pc. 36.2 mt (4:1) Capacity.
Suitable for use in Stabilizing
Cars, Trucks, Buses, Vans and
Transport Vehicles.



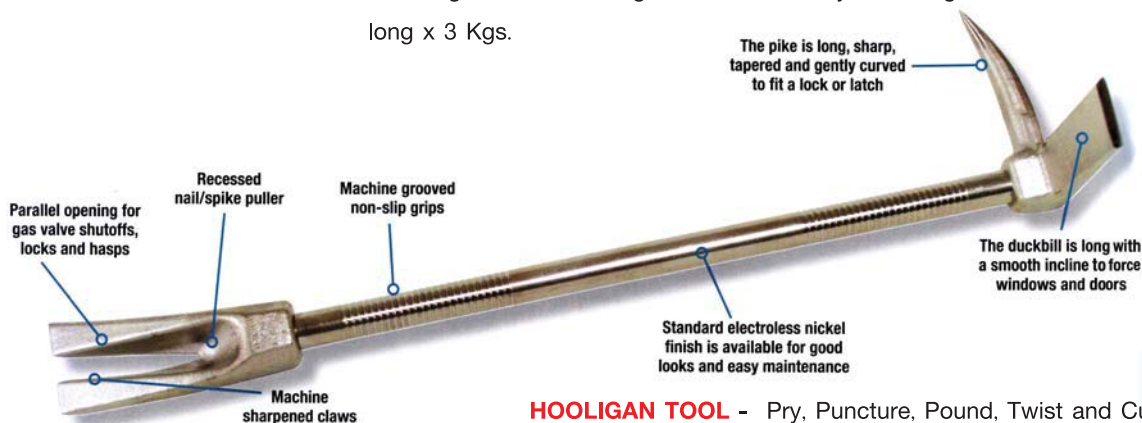
PARATECH, PRY, PULL, CUT - FORCIBLE ENTRY TOOLS



BIEL TOOL - One Piece Stainless Steel Personal Entry Tool. Five (5) Function Rescue Tool Small Enough to Be Carried by the Firefighter or EMT Member. Force Open Doors and Windows. Twist and Break Locks and Metal Bars. Cut Sheet Metal and Break Car Windows for Vehicle Entry. Size: 38 cm long x 1.5 Kgs.



PRY-AXE - Two Piece Multi-Purpose Ten (10) Function "Slam and Ram" Personal Entry Tool for Use by Police and Fire Departments. Pry Open Doors and Metal Compartments. Twist Off Locks and Latches. Cut Through Sheet Metal and Pry Off Window Bars. Entry Into Vehicles by Breaking Glass or Cutting Sheet Metal. Easy Mounting in Vehicles or Motorcycles. Size 47 cm long x 3 Kgs.

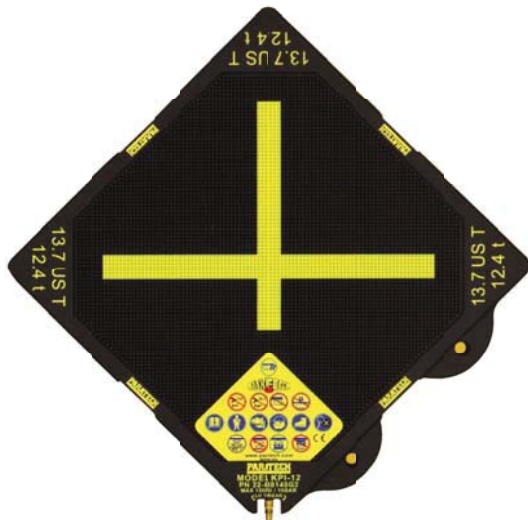


HOOLIGAN TOOL - Pry, Puncture, Pound, Twist and Cut In the Most Demanding Entry Applications. Six (6) Function Tool for Fire and Rescue. Choose Metal Cutting or Standard Claw. Select From Lengths: 24 in (61 cm) to 42" (106 cm). Three (3) Basic Models: Hooligan Standard Tool, Hooligan Lightweight (Aluminum Handle) and Hooligan Spark Resistant Tool For Use in HazMat Incidents.



PRT RESCUE KIT - Hand Operated Percussion Rescue Tool (PRT) The Sliding Ram Directs the Force of Impact At The Tool for Breaking, Puncturing, Cutting and Prying When Fast Entry is required. Five (5) Tools and One (1) PRT Ram Bar In A Carry Pouch. Accessories Available included Piercing Applicators for Firefighting Applications. Weight: 13 Kgs.

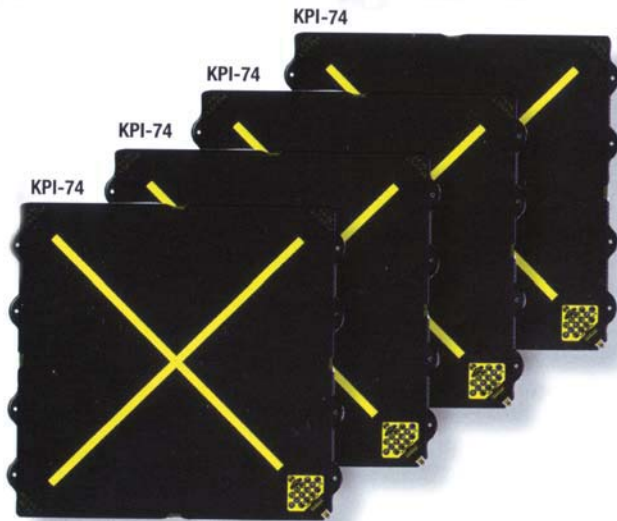
PARATECH-LIFT AND SHIFT



MAXIFORCE AIR LIFTING BAGS- Air Operated (10.3 Bar) with Lifting Capacity to 80 MT to a Maximum Height of 55 cm. Insertion Height on 3cm. Set consists of 1-14 Air Lifting Bags Control Set (Regulator, Controller, Hoses and an Air Cylinder or Other Air Source. Suitable for Rescue, Vehicle Extraction and Industrial Applications. Complete Specifications available. Training included Upon Request.



MULTIFORCE AIR LIFTING BAG- Dual Lifting Bag Provides Safe, High Load 28MT Combined with High Lift to 66cm. Insertion Height only 11.4cm. Choose from Three (3) Kits to Meet Your Application, "Remote Placement Multiforce", "Basic Multiforce" and "Compact Multiforce". Complete Specifications available. Training included Upon Request.



MAXIFORCE 22-890351G2 34 TON-2 BAG SET WITH BASIC CONTROL KIT
MAXIFORCE 22-889050G2 50 TON-3 BAG SET WITH BASIC CONTROL KIT
MAXIFORCE 22-888190G2 VEHICLE SET WITH BASIC CONTROL KIT



PARATECH Mdl. 22-887100KG2 RESCUE AIR CUSHION KIT

Medium Pressure Rescue Air Cushion Kit.
 Capacity 6 Ton/5.4 MT Two (2) AK Rescue Air Cushions.
 Complete with Controller, Filling Hoses, Repair Kit and Repair Kit.
 (Optional: 22-895401G (DG) 2 Regulator for Compress Air or 22-800400 2-Stage Manual Air Compressor (Special Order)



for additional information visit: www.paratech.com

CONTROL KITS AND MAXIFORCE AIR BAG SETS

BASIC CONTROL KIT 22-890351G2D- Includes Regulator, Dual Deadman Control and Hoses

MASTER CONTROL KIT 22-890300G2D- Includes Regulator, Dual Deadman Control, Hoses and Selection of Fittings and Connections for Use With Multiple Air Bag Applications.

AIR POWERED IMPACT TOOLS



The **AIRGUN KIT** is a Portable Twelve (12) Piece Air Powered Light Weight, Light Duty Tool for forcible entry and rescue work. Use Together with SCBA or Spare Air Cylinder. The **AIRGUN KIT** includes Three (3) Specially Designed Tool Bits for Cutting, Breaking and Penetrating. Cut Sheet Metal, and Locks. Create Entry Through Masonry Walls. Very Low Air Consumption and High Impact Output, at 1600 Blows Per Minute. Weight only 7 pounds (3.2 kg), the **AIRGUN KIT** is an ideal tool for rescue work. Additional Bits May Be Purchased for Haz-Mat, Firefighting and Vehicle Rescue.



The **AIRGUN SC KIT** is a Portable Twenty-Four (24) Piece Air Powered Light Weight, Light Duty Tool for Firefighting, Forcible Entry and Rescue Work. Use Together with Mounted Air Cylinder, SCBA or Spare Air Cylinder. **AIRGUN SC** Contains Ten (10) Specialized Tool Bits Including Two (2) Piercing Applicators. A Firefighter Can Rapidly Deliver Water, AFFF Solutions and Halon Through the Skin of An Aircraft or Water Tight Compartment. Additional Specialized Tool Bits Are Used for Cutting Sheet Metal Vehicle Extrication, Lock Breaking, Entry Through Masonry Walls. The Self-contained Air Supply Can Be Removed, and An External Air Cylinder Connected for Prolonged Use. 1600 Blows per Minute. Weight 8.9 Kgs. Completely Assembled.



The **PAKHAMMER KIT** is a Portable Twelve (12) Piece Air Powered Light Weight, Medium Duty Tool for forcible entry and rescue work. Use Together with SCBA or Spare Air Cylinder.

The **PAKHAMMER KIT** includes Three (3) Specially Designed Tool Bits for Cutting, Breaking and Penetrating. Cut Sheet Metal, and Locks. Create Entry Through Masonry Walls. Very Low Air Consumption and High Impact Output, at 1100 Blows Per Minute. Weight only 11 pounds (5 Kgs), the **PAKHAMMER KIT** is an ideal tool for rescue work. Additional Bits May Be Purchased for Haz-Mat, Firefighting and Vehicle Rescue.



AMKUS ENGINE DRIVEN HYDRAULIC RESCUE TOOLS



MODEL GOLDEN HOUR



MODEL "GOLDEN HOUR" HEAVY DUTY SET CONTAINS:

- Model GB2S-XLO Hydraulic "Simo" Power Unit NFPA/EN with Standard Twin Hoses or Amkus "Mono-Coupler" Hose
- Model AMK-24 NFPA/EN Certified Spreader
- Model AMK-21A NFPA/EN Certified Cutter. Rotating Handle
- AMK-40 Push-Pull Ram. 10" Ram Extension (Optional)
- Quick Adjust Chain Package



MODEL ALPHA II

MODEL "ALPHA II" QUICK RESPONSE SET CONTAINS:

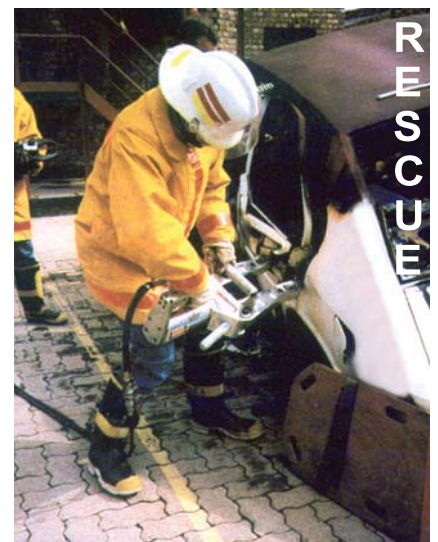
- Model GH2- MC Mini Hydraulic "Simo" Power Unit with Roll Cage
- Standard Twin Hoses or Amkus "Mono-Coupler" Hose
- Model AMK-25C Combination Cutter/Spreader W/ D-Handle
- AMK-30 Push-Pull Ram and 10" Extension
- Manual Adjust Chain Package



MODEL : CLASSIC III

MODEL "CLASSIC III" HEAVY -DUTY RESCUE SET CONTAINS:

- Model GB2S-XLO Hydraulic "Simo" Power Unit NFPA/EN
- Standard Twin Hoses or Amkus "Mono-Coupler" Hose
- Model AMK-30CX Light Weight, Full Size Spreader
- Model AMK-25 Heavy Duty, High Performance Cutter
- AMK-40 Push-Pull Ram. 10" Ram Extension (Optional)
- Quick Adjust Chain Package



AMKUS BATTERY POWER HYDRAULIC RESCUE TOOLS



ION IC550 BL CUTTER

- Cutter blades and center bolt are designed to access tight places and make difficult cuts
- High intensity integrated LED lights illuminate the work area
- Rotating handle allows tool to be repositioned with minimal effort

Length	29.2 inches (741 mm)
Width	6.9 inches (175 mm)
Height	8.6 inches (218 mm)
Weight (excl. battery)	44.4 lbs (20.1 kg)
Cutter Opening	5.9 inches (150 mm)
Cutter Rating	A6/B6/C7/E7
Battery	Dewal® Lithium-Ion
Battery Voltage	60V

ION IS240 BL Spreader

- The iS240 uses the same tips as the hydraulic AMK-24 and AMK-30CRT, including the ERT tips and the quick adjust chain package
- Adding ERT tips to the iS240 expands the spreading distance.

Length	30.1 inches (764 mm)
Width	7 inches (177 mm)
Height	8.8 inches (223 mm)
Weight (excl. battery)	46.2 lbs (21 kg)
MAX Spreading Distance	24 inches (609 mm)
MAX Spreading Distance (with optimal ERT tips)	32 inches (813 mm)
Battery	Dewal® Lithium-Ion
Battery Voltage	60V



ION ICT516 BL COMBI TOOL

- Versatile and durable “On Scene” tool for rescue truck or ambulance
- The iCT516 Combi Tool can be used to spread, cut and “pop” doors

Length	28.9 inches (734 mm)
Width	6.9 inches (175 mm)
Height	8.6 inches (218 mm)
Weight (excl. battery)	44.9 lbs (20.3 kg)
MAX Spreading Distance	15.6 inches (396 mm)
Cutter Opening	7.3 inches (185 mm)
Battery	Dewal® Lithium-Ion
Battery Voltage	60V



ION ITR230 BL RAM

- The iTR230 has the highest pushing force available in a battery power ram
- Unique rotating handle allows extra maneuverability in tight spaces
- Extensions available for a maximum extended length of 50 inches

RAM EXTENSIONS

AMK-TCE10- 10" RAM Extension for the ITR230 Ram

AMK-TCE18- 18" RAM Extension for the ITR230 Ram

AMK-TCE27- 27" RAM Extension for the ITR230 Ram

Length	17.0 inches (432 mm)
Width	7.9 inches (200 mm)
Height	11.4 inches (290 mm)
Weight (excl. battery)	4.4 lbs (20.1 kg)
Length Retracted	11.4 inches (290 mm)
Length Extended	22.6 inches (574 mm)
Stroke : Piston 1	6.3 inches (160 mm)
Stroke : Piston 2	4.9 inches (124 mm)
Stroke : Overall	11.2 inches (284 mm)
Extensions Lengths Available	10,18 and 27 inches (254,457 and 686 mm)
MAX Extended Length with Extensions	49.6 inches (1260 mm)
MAX Pushing Force Piston 1	48,061 lbs (213.8 kN)
MAX Pushing Force Piston 2	17,417 lbs (77.4 kN)
Battery	Dewal® Lithium-Ion
Battery Voltage	60V

SAFETY LIGHTING

WORKSAFE ALKALINE - The WorkSAFE series includes 2D and 3D-sized flashlights (both available in waterproof models), lanterns, All UL Class I, Division I rated for unsurpassed safety in the most hazardous environments and they're all affordable enough to meet even the most modest budgets. Waterproof and floats. Polyethylene body. UL standard embossed on body.

Division 1 **WorkSAFE™ I**

HAZARDOUS AREA

MODEL NUMBER	Type Designation	MSHA Approved	Underwriter Laboratories Division 1			
			Class I Group C	Class I Group D	Class II Group G	Class III
13740 / 14460	II	✓	✓	✓	✓	✓
14240 / 14720	II	✓	✓	✓	✓	✓
2206	II	✓	✓	✓	✓	✓

BRIGHT STAR



- 1.(2-D Cell) Model 13740 (2117) (Value Model) Model 14460 (2217) (Best Model)
 2.(3-D Cell) Model 14240 (2114) (Value Model) Model 14720 (2224) (Best Model)
 3.(6-V Cell) Model 07050 (2206) Lantern Style with Glove Size Handle
 ** Value Model (brass switch contact) Best Model (steel and brass switch contact)
 * Batteries not included

DATA SHEETS: <http://www.flashlight.com/worksafe-alkaline/>

PELICAN SAFETY FLASHLIGHTS Xenon Bulbs * Hazardous Location * Water Resistant

FM PELICAN



** Must use "Alkaline" Batteries for maximum bulb life

- 1.Model 2400C-Stealthlite 45 Lumens One hand switch + Model 700 Helmet Mount (4AA cell-included)
 2.Model 2000C-Saberlight 53 Lumens Lens Shroud Twist on/off
 3.Model 1900C-Mitylight Lens Shroud Twist on/off

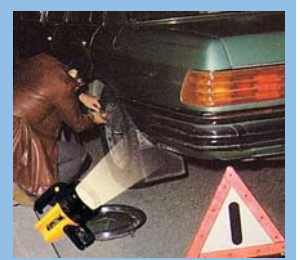
CERTIFICATIONS: Class I, Division 1 / Class I, Division 1 / Class II, Division 2 / IECEx ib

DATA SHEETS: <http://www.pelican.com/us/en/pro/products/safety-flashlights-and-headlamps/>

RECHARGEABLE

Qualification of Rechargeable

1. Charge 12V / 220V
2. Complete Set include 6V battery and charger
3. Adjustable handle for carry



MAG INSTRUMENT

- 1.P/N M2A01H Flashlight With Pouch (2-AA cell)
- 2.P/N S2D016, S3D016, S4D016 (2-D cell , (3-D cell) , (4-D cell)
- 3.P/N S6D016 (6-D cell)

www.maglite.com

MAG INSTRUMENT Incandescent Bulb *Water Resistant* Aluminum Body

Every Mag-Lite Flashlight embodies a precise balance of refined optics, efficient power, durability and quality. Each Mag-Lite D-Cell flashlight includes two high intensity White Star Lamps for enhanced brilliance and extended range.

- 1.Model M2A01H-Mini maglite Compact flashlight + cloth holder
- 2.Model S2D016 (2-D Cell) S3D016 (3-D Cell), S4D016 (4-D Cell) Full Size Flashlight
- 3.Model S6D016 (6-D Cell) 178 Lumens

LED SAFETY LIGHTING



BRIGHTSTAR WORKSAFE LED

- For use in hazardous situations
- Division 1 Class 1
- World's Most Affordable
- Waterproof
- Anti-roll tube

WorkSafe™ Model # 2217- #15460 LED (2-D CELL)

Power Source: 2x 'D' Cell Alkaline Light Source: LED

Life: 30,000 hrs Runtime: 200 hrs Light Output: 80

Lumens Beam Distance: 99 Meters

WorkSafe™ Model # 2224- # 15720 LED (3-D CELL)

Power Source: 3 x 'D' Cell Alkaline Light Source: LED

Life: 30,000 hrs Runtime: 250 hrs Beam Distance: 88

meters Light Output: 60 Lumens



PELICAN LED LIGHTS

The new **3315 LED** Flashlight: the lightweight compact design houses 3 AA batteries that power a single LED for 160 lumens of super bright LED light.

CERTIFICATIONS: Class I, Division 1 / Class II



#700 HELMET LITE HOLDER FOR SAFETY AND FIREFIGHTING



The **2690** is made of impact and chemical resistant ABS and it's water resistant for all-weather use. It comes with an adjustable and comfortable cloth strap, as well as a heavy duty rubber strap that will not slip off your climbing helmet or hard hat. 74 lumens of LED light, 11 hours of battery run time and weighing in at 4.1 ounces CERTIFICATIONS: Class I, Division 1 / Class II, Division 1 / Class III, Division 1 / IECEx ia



MINI MAGLITE® LED FLASHLIGHT

145 m Beam

97 Lumens

MAGLITE® 2-CELL D LED FLASHLIGHT

412 m Beam

168 Lumens

MAGLITE® 3-CELL D LED FLASHLIGHT

412 m Beam

168 Lumens

JUSTRITE CHEMICAL STORAGE

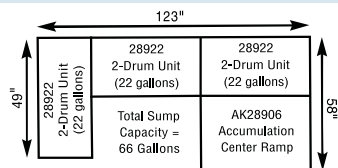
CHEMICAL STORAGE CABINETS FOR FLAMMABLE, ACIDS, AND CORROSIVES



STORAGE CABINETS FOR FLAMMABLE, COMBUSTABLE & CORROSIVE MATERIALS



3 - 28922 2-Drum Units
1 - AK28906 Ramp
2 - 28927 Sump-to-Sump™ Drain Kits



Add a ramp for convenience!
Sturdy clips securely join ramp to pallet edge for a snug fit.

COLOR CODE FOR HAZARDOUS MATERIALS

	Yellow for flammable liquids
	Red for paints, inks, and other combustible liquids
	Blue for corrosive liquids
	Green for pesticides and insecticides
	White or Gray for other uses such as for hazardous waste materials.
	Other neutral colors for laboratory settings to match existing casework.



PARATECH LEAK PLUG KIT
Plugs Leaks and Holes " -4"
Neoprene Plugs (3)
Wooden Plugs (3)
Includes Non-Sparking Hammer and Storage Case. **P/N 715**



OIL SPILL CONTROL MATERIALS
- Oil Spill Booms
- Oil Spill Pillows, Pads
- Oil Spill Containment Tape and Epoxy Putty
- Gloves and Chemical PPE

SAFELY STORE ALL CHEMICALS IN JUSTRITE SAFETY CANS, CONTAINERS, CABINETS AND SPILL CONTROL PALLETS. ALL JUSTRITE PRODUCTS ARE COLOR CODED TO IDENTIFY THE TYPE OF CHEMICALS STORED. ALL CABINETS AND STORAGE PRODUCTS MEET INTERNATIONAL STANDARDS SUCH AS OSHA AND NFPA CODE 30 TO ASSIST YOUR COMPANY IN MEETING ISO 1800 AND ISO 14000 REQUIREMENTS.



Gator® Accumulation Centers

Product Description	Sump Cap. (Gallons)	Load Bearing Capacity	Outside Di W x D x H m.	Model No.
2 drum unit	22	2400 lbs.	49" x 25" x 51 1/2"	28922
4 drum unit	43	6000 lbs.	49" x 49" x 51 1/2"	28923
6 drum unit	64	7000 lbs.	73" x 49" x 51 1/2"	28924
8 drum unit	85	8000 lbs.	97" x 49" x 51 1/2"	28925
Ramp for above	-	1000 lbs.	48" x 33" x 51 1/2"	AK28905
Joining clips, one pair, stainless steel	-	-	4" x 2" 6 1/4"	AK28906
Sump-to-Sump™ Drain Kit	-	-	-	28926
	-	-	One pair stainless steel joining clips, One pair rubber grommets, one teflon transfer tube	28927

www.justritemfg.com

CAPACITY 1-5 USG (4-19 L)



SAFETY CANS AND CONTAINERS

Easy-to-Use-Safety Can

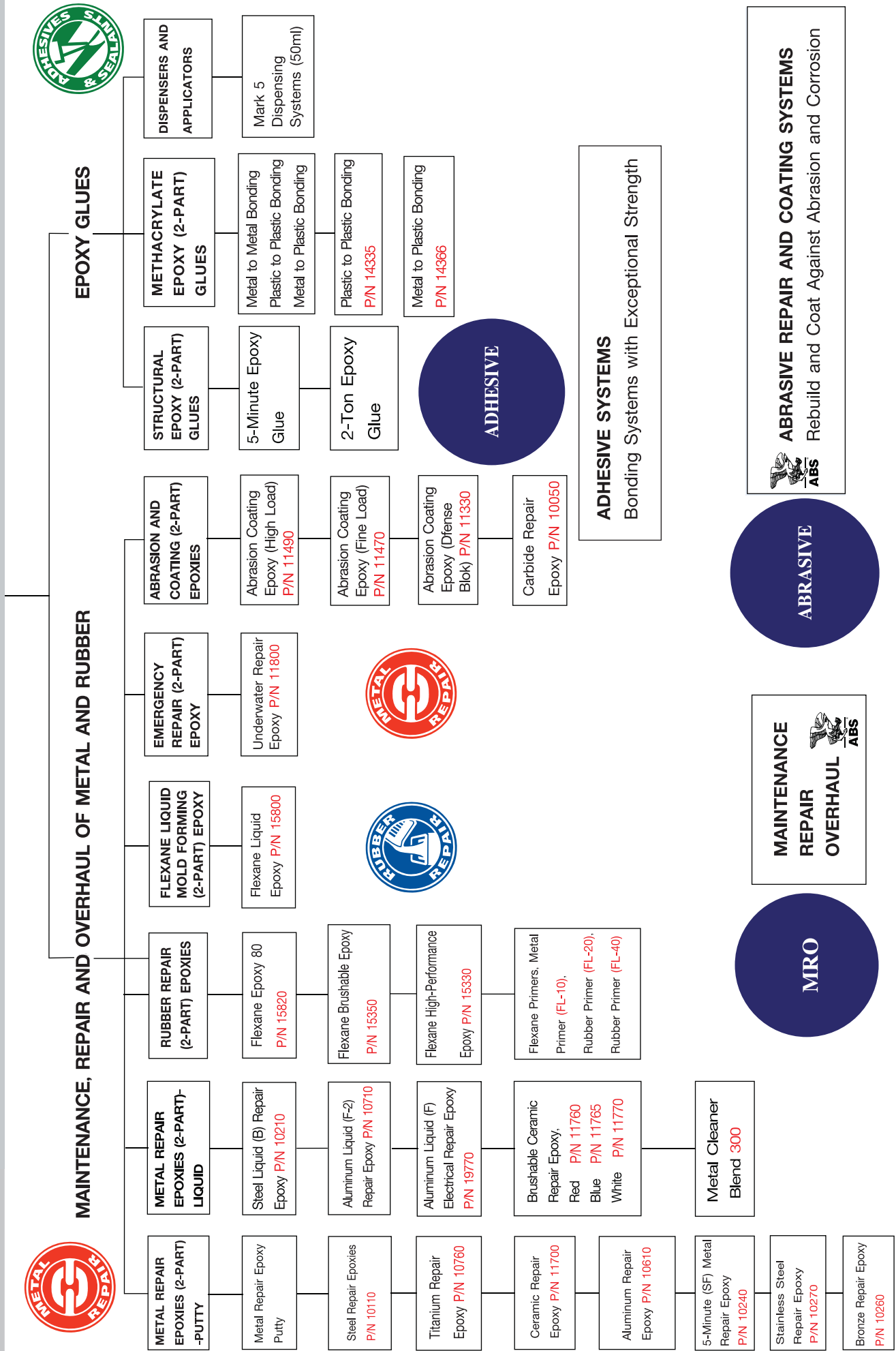
100% Compliant • 100% Leak-tested



OIL SPILL CONTAINMENT KIT

Self-Contained Portable Chemical Spill Kit
- Contain Spills up to 14 Gallons (53 L)
- Included Booms, Pillows, Pads for Absorbing Oil and Chemical Spills. Basic PPE for the Worker

Devcon® DEVCON PRODUCT APPLICATION



Metal Repair Selector Guide



METAL/EQUIPMENT REPAIR

	Plastic Steel® Putty (A)	Aluminum Putty (F)	Titanium Putty	Magic Bond	Wear Guard High Temp.	Ceramic Repair Putty	Brushable Ceramic	Wear Guard High Load, Fine Load, Combo Wear	Plastic Steel B Alum F2	Stainless Steel Putty ST	Wet Surface Putty
Acid Resistant Coating						▲	▲				
Casting Repair	▲	▲	▲								
Chemical Resistant Coatings			▲			▲					
Chocking, Leveling Compound								▲			
Coating (Impact, Abrasion)				▲	▲	▲	▲				
Condenser Tube Sheet Coating						▲					
Corrosion Resistant Coating				▲	▲	▲	▲				
Cyclones				▲			▲				
Epoxy (Fast-Cure Repairs)			▲								
Fans/Exhauster Fan Blades					▲		▲				
Holding Fixtures (Making Molds)								▲			
Hopper (Rebuild and Coat)						▲	▲				
Leaks (Drums, Pipes, Tanks)	▲		▲								
Lining Coal Chutes				▲			▲				
Machinable Repair Material	▲	▲	▲					▲	▲		
Meat & Poultry Plants	▲		▲			▲			▲		
Pipe Elbow Coatings/Linings				▲			▲				
Pulverizers/Mills				▲			▲				
Pump Repairs-Slurry			▲		▲		▲				
Pump Repairs-Water			▲							▲	
Rebuild Worn threads, Keyways, Metal	▲		▲					▲			
Repairing Engine Blocks	▲		▲								
Shaft Repairs			▲								
Tank Linings				▲	▲					▲	
Tank Repairs (Hole)	▲		▲								
Valve Rebuild/Repairs	▲	▲	▲								
Wet/Damp Surface Bonding				▲						▲	

METAL REPAIR

Devcon®

METAL REPAIR PUTTIES

*Repair All Metal Surfaces * Match the Devcon Product to the Type of Metal (Steel, Stainless Steel, Aluminum, Brass, Alloys) * Prepare Surface * Mix Properly * Apply



PLASTIC STEEL A
P/N 10110



RESIN



HARDENER



PLASTIC STEEL-5 Minute (SF)
P/N 10240

REPAIR

*Gaps and Holes from Rust or Corrosion * Cracks * Castings, * Pipes *Keyways* Pump Bodies * Impellers * Tanks * Exhaust Fans* Rebuild Metal Threads * Linings

PLASTIC STEEL A: P/N 10110 (454 gr.) .03m @ .025 in (6.3mm) Thickness

Repairs: Steel Structures, Metal Plates, Cast Iron and Castings. Can be Machined, Drilled or Tapped.

Drying Color: Grey Putty. Working Time: 20 minutes. Full Cure: 16 hours.

Volume Mix Ratio: 2.5:1. Working Temperature: Dry: 121C, Wet: 50C

Adhesive Tensile Shear Strength: 2,800 psi. (19.31 MPa)

Compressive Strength: 8,260 psi (56.95 MPa)

Hardness: 85 Shore D

TDS/MSDS:[http://www.devcon.com/products/products.cfm?brand=Devcon&family=Plastic%20Steel%C2%AE%20Putty%20\(A\)](http://www.devcon.com/products/products.cfm?brand=Devcon&family=Plastic%20Steel%C2%AE%20Putty%20(A))

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American Bureau of Shipping



PLASTIC STEEL -5 Minute (SF): P/N 10240 (454 gr.) .03m @ .025 in (6.3mm) Thickness

Fast Repair: Steel structures, Metal Plates, Cast Iron and Castings. Can be Machined and Drilled.

Drying Color: Dark Grey Putty. Working Time: 5 minutes. Full Cure: 1 hour

Volume Mix Ratio: 1:1. Working Temperature: Dry: 95C

Adhesive Tensile Shear Strength: 2,026 psi. (14.0 MPa)

Compressive Strength: 10,400 psi (56.95 MPa)

Hardness: 85 Shore D

TDS/MSDS:<http://www.devcon.com/products/products.cfm?family->

[id=101&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA](http://www.devcon.com/products/products.cfm?family-id=101&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)



ALUMINUM PUTTY (F): P/N 10610 (454 gr.) .04m @ .025 in (6.3mm) Thickness

Repairs: Aluminum Castings and Non-rusting metal structures. Can be Machined and Drilled.

Drying Color: Aluminum Putty. Working Time: 20 minutes. Full Cure: 16 hours

Volume Mix Ratio: 4:1. Working Temperature: Dry: 121C, Wet: 50C

Adhesive Tensile Shear Strength: 2,026 psi. (14.0 MPa)

Compressive Strength: 8,240 psi (58.0 MPa)

Hardness: 85 Shore D

TDS/MSDS:<http://www.devcon.com/products/products.cfm?family->

[id=107&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA](http://www.devcon.com/products/products.cfm?family-id=107&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)



METAL REPAIR

Devcon®

METAL REPAIR PUTTIES

*Repair All Metal Surfaces * Match the Devcon Product to the Type of Metal (Steel, Stainless Steel, Aluminum, Brass, Alloys) * Prepare Surface * Mix Properly * Apply



ALUMINUM F: P/N 10610



STAINLESS STEEL ST P/N 10270



BRONZE BR P/N 10260

Proportional
Mixing



STAINLESS STEEL PUTTY (ST) : P/N 10270 (454 gr.) .03m @ .025 in (6.3mm) Thickness

Repairs: Rebuild, Repair Stainless Steel Structures and Tanks. Can be Machined, Drilled or Tapped.

Drying Color: Dark Grey Putty. Working Time: 20 minutes. Full Cure: 16 hours.

Volume Mix Ratio: 3.75:1. Working Temperature: Dry: 121C, Wet: 50C

Adhesive Tensile Shear Strength: 2,385 psi. (16.4 MPa)

Compressive Strength: 8,400 psi (57.9 MPa)

Hardness: 85 Shore D

TDS/MSDS:[http://www.devcon.com/products/products.cfm?family-](http://www.devcon.com/products/products.cfm?family-id=105&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)

[id=105&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA](http://www.devcon.com/products/products.cfm?family-id=105&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)



BRONZE PUTTY (ST) : P/N 10260 (454 gr.) .03m @ .025 in (6.3mm) Thickness

Repairs: Bronze & Brass Parts, Castings and Bushings

Repairs: Rebuild, Repair Stainless Steel Structures and Tanks. Can be Machined, Drilled or Tapped.

Drying Color: Bronze Putty. Working Time: 20 minutes. Full Cure: 16 hours.

Volume Mix Ratio: 3:1. Working Temperature: Dry: 121C, Wet: 50C

Adhesive Tensile Shear Strength: 2,680 psi. (18.47 MPa)

Compressive Strength: 8,400 psi (58.88 MPa)

Hardness: 85 Shore D

TDS/MSDS:[http://www.devcon.com/products/products.cfm?family-](http://www.devcon.com/products/products.cfm?family-id=104&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)

[id=104&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA](http://www.devcon.com/products/products.cfm?family-id=104&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)

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ISSA MARINE PART NOS.	ISSA
Devcon #10110 Plastic Steel Putty (A), 454g	81-22-51
Devcon #10240 Plastic Steel 5 Minute (SF)	81-22-62
Devcon #10260 Bronze Putty (BR)	81-22-90
Devcon #10270 Stainless Steel (ST)	81-22-92
Devcon #11800 Underwater Repair Putty (UW)	81-22-46



PRECISION REPAIR

Devcon®

PRECISION REPAIR EPOXY for METAL REPAIR

* Repair Machine Parts * Suitable for Precision Machining * Strong Adhesion & Wear Resistance* Prepare Surface * Mix Properly * Apply* Machine



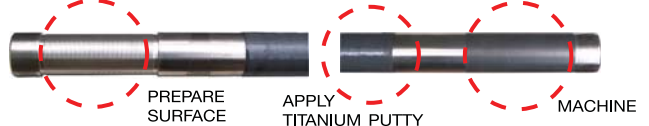
Rebuild and Machine
To Original Dimensions
with TITANIUM PUTTY

TITANIUM REPAIR

KEYWAY REPAIR



SHAFT REPAIR



Titanium **P/N 10760**

HR Super 3000

Devcon HR SUPER 3000

HR-Super 3000 putty is a high performance epoxy ideal for repairing damaged equipment which is exposed to temperatures as high as 3000C (dry).

Devcon HR Super 3000 is best applied between 15 and 30 °C, below 15 °C pot life and cure time will be notably increased and above 30 °C pot life and cure time will be notably reduced.

A 3mm thick section will harden at 21 °C in 10-20 minutes and functional cure will be achieved in 24 hours.

If substrate temperature is outside of stated range it is possible to use infrared or other means of heating to raise the substrate temperature to be within the desired range.

RECOMMENDED APPLICATION

Stop leakage in pipes, valves, flanges and tanks

Machinery repair

Fill small or large holes in castings

Engine block and crankcase repair

REPAIR

*Bearing Housings & Shafts * Wear Rings * Keyways * Valves *Hydraulic Cylinders* Pump Parts * Hubs * Rebuild Metal Threads * Wear Parts * Valve Faces* Valve Seats

Titanium Putty: **P/N 10760 (454 gr.) .03m @ .025 in (6.3mm) Thickness**

Repairs: Rebuild Bearing Housings, Worn Shafts, Use with All Metals. Can be Machined, Drilled or Tapped.

Drying Color: Grey Putty. Working Time: 20 minutes. Full Cure: 16 hours.

Volume Mix Ratio: 3.1:1. Working Temperature: Dry: 155C, Wet: 66C

Adhesive Tensile Shear Strength: 2,000 psi. (13.78 MPa)

Compressive Strength: 15,200psi (104.8 MPa)

Hardness: 87 Shore D. Chemical Resistance: Excellence



Wear Resistant WR-2 Putty: **P/N 11410 (454 gr.) .03m @ .025 in (6.3mm) Thickness**

Repairs: Wear Resistant Epoxy for Repairing, Flange Faces, Abrasive Friction Damage. Can be Machined

Drying Color: Dark Grey Putty. Working Time: 20 minutes. Full Cure: 16 hours.

Volume Mix Ratio: 4.3:1. Working Temperature: Dry: 104C, Wet: 54C

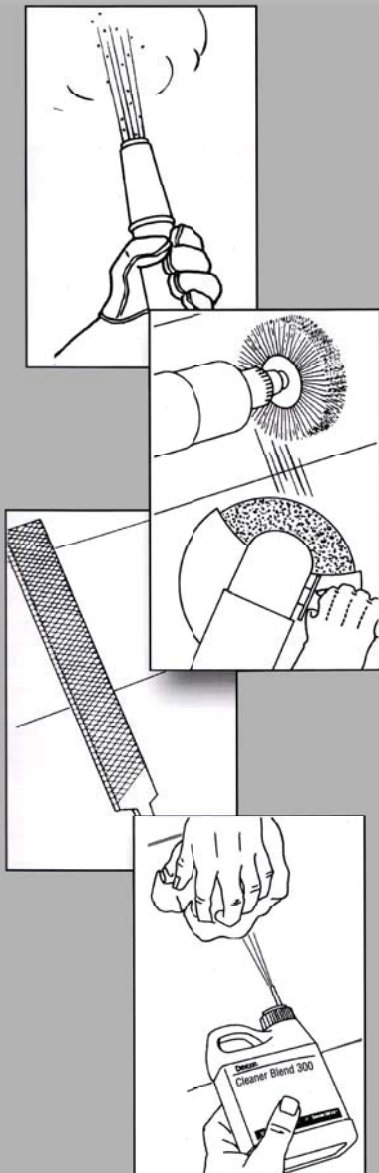
Adhesive Tensile Shear Strength: 2,200 psi. (15.16 MPa)

Compressive Strength: 15,200psi (67.56 MPa)

Hardness: 85 Shore D. Chemical Resistance: Excellence

SURFACE PREPARATION

Devcon®



PREPARED SURFACE



CLEAN, GREASE FREE, ROUGH

DEGREASING

The degreasing of surfaces that are immersed in oil is usually the most difficult to do. There is always the possibility of the absorbed oil in the metal surface that will cause an adhesion problem after the epoxy is cured. An oily pump shaft or bearing housing is an excellent example of a part that would be immersed in oil prior to using Devcon Metal Repair Epoxies.

1. Apply Cleaner Blend 300 to the oily surface. Repeated applications of these cleaners will help to “draw” the oil out of the surface.
2. Absorbed oil from metal surfaces that have been constantly immersed in oil, should be removed by heat. The heat forces the oil out of the pores. Heating the part with a heat gun, or putting the part in an oven will produce this effect.
3. Allow the surface to cool and then degrease again with Cleaner Blend 300

SURFACE ROUGHENING

Always abraide a smooth surface to increase the adhesion of the epoxy to the substrate. Many field applications are redone because someone forgot to get a good surface profile.

1. If the surface was cleaned by abrasive blasting, grinding, shotblasting, or needle gun, the “roughen” effect should be sufficient to coat.
2. Otherwise, roughen the surface with a coarse sandpaper or a file.

WET SURFACES

1. General procedure concerning any area that is to be repaired using Devcon Industrial Epoxies: “It Must Be Dry!!!”
2. An exception is when you use Devcon’s Wet Surface Epoxy UW. (See the Underwater Surfaces section.)
3. First stop all leaks or seepage. This may be done by many means:
 - a. Shut off the flow or pressure.
 - b. Fit a wooden peg or a sheetmetal screw into the hole to stop flow.
 - c. Stuff with wax, cork, plumber’s caulk, Mortite, or a cloth into the opening to stop the flow of liquid.
4. If the leak is caused by corrosion, the side wall might be weak. Open the orifice until good metal is exposed and the wall is thick enough to be plugged. Then plug the opening with the recommended materials. (See number 3.)
5. Remove surface condensation “sweating” and dampness by using a hot air gun or a similar device.
6. Continue with the General Surface Preparation Guidelines.

GENERAL SURFACE PREPARATION

1. All surfaces must be dry, clean, and rough.
2. Stop all liquids from leaking onto the surface, while repairing the substrate.
3. Remove all paint, rust, grime from surface by abrasive blasting or other mechanical techniques.
4. Degrease area with Cleaner Blend 300.
5. Provide a “profile” on the metal surface by roughening the surface through abrasive blasting or mechanical means.

CLEAN SURFACES

1. If surface is oily or greasy, use Cleaner Blend 300 to cleanse the surface.
2. After the recommended method of cleaning, abrasive blasting is done to the surface to produce a good “Surface profile”. Oils and contaminants usually get imbedded into the surface, and do not wash away with degreasing.
3. The blasting medium should be angular grit such as silicon carbide, Black Beauty, or aluminium oxide. A .003 to .005 mil profile should be attained. The medium Black Beauty (Size 1240 medium grade) will produce this grade.
4. If you cannot abrasive blast the substrate, you may use a coarse grinding wheel (60 grit or coarser), or a needle gun to achieve the desired mil profile.
5. High velocity water blasting with abrasive medium is also recommended. After the blasting, degrease again with Cleaner Blend 300. This helps wash away blasting medium that becomes lodged in the profile of the metal. Be sure to apply Devcon Epoxies immediately after blasting to prevent rust blooming.
6. Always try to make the repair as soon as possible after cleaning the substrate, to avoid oxidation or flash rusting. If this is not practical, a general application of FL-10 Primer will keep metal surfaces from flash rusting.

PHYSICAL PROPERTIES



TYPICAL PHYSICAL PROPERTIES



Mix ratio by weight (resin:hardener)	Mix ratio by volume (resin:hardener)	Viscosity with hardener (cps)	Specific Volume (in. ³ per lb.)	Pot life in minutes @ 75 °F	Coverage per lb. in sq. in. 1/4" thick	Operating temperature (max. °F)	Adhesive tensile shear (psi ASTM D 1002)	Tensile strength (psi ASTM D 638)	Compressive strength (psi ASTM D 695)	Flexural strength (psi ASTM D 790)	Modulus elasticity in tension (psi ASTM D 638 [x10 ⁵])	Coefficient of thermal expansion (ASTM D 696 in./in. °F [x10 ⁻⁵])	Thermal conductivity (ASTM C 177 [cal/cm/sec·cm ³ ·°C x10 ⁻³])	Dielectric constant (ASTM D 150)	Dielectric strength (ASTM D 149 volts/mil)	Cured shrinkage (in./in. ASTM D 2566)	Cured hardness (shore D ASTM D 2240)
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(GENERAL REPAIR PUTTY)

PLASTIC STEEL PUTTY (A)	10110	9:1	2.5:1	Putty	11.9	45	48	250	2,800	3,220	8,260	5,600	8.5	48	1.37	67.5	30	0.0006	85
PLASTIC STEEL 5-MINUTE PUTTY (SF)	10240	1.7:1	1:1	Putty	12.2	5	49	200	2,026	3,100	10,400	7,680	7.5	34	2.65	35.0	30	0.0006	85
ALUMINUM PUTTY (F)	10610	9:1	4:1	Putty	17.5	60	70	250	2,600	3,680	8,420	6,760	8.0	29	1.73	21.4	100	0.0008	85
ALUMINUM LIQUID (F-2)	10710	9:1	5:1	15/25,000	17.5	75	70	250	2,700	5,000	9,820	3,540	7.5	50	1.58	8.6	100	0.0009	85
STAINLESS STEEL PUTTY (ST)	10270	11:1	3.75:1	Putty	12.4	58	50	250	2,385	3,340	8,400	5,280	8.0	34	1.23	75.0	30	0.0010	85
BRONZE PUTTY (BR)	10260	9:1	3:1	Putty	12.4	35	50	250	2,680	2,640	8,540	6,180	8.0	33	1.57	75.0	25	0.0010	85

(PRECISION REPAIR EPOXIES)

TITANIUM PUTTY	10760	4.3:1	3.1:1	Putty	11.7	21	47	350	2,000	4,000	18,800	7,700	9.5	22	1.95	44.8	56	0.0010	87
WEAR RESISTANT (WR-2)	11410	9:1	4:1	Putty	13.9	60	56	250	2,200	4,300	9,800	6,500	7.5	32	1.67	6.3	4,000	0.0005	85
FASTMETAL	10780	1.07:1	1:1	Putty	17.2	4	69	250	2,000	3,145	12,700	7,000	8.5	32	2.04	18.6	370	0.0093	85

(ABRASION-RESISTANT SYSTEM)

BRUSHABLE CERAMIC-RED,BLUE		5.6:1	3.4:1	32,000	16.5	40	7.6 ⁵	350	2,000	3,800	15,200	8,000	9.0	19	1.92	38.7	382	0.0020	90
CERAMIC REPAIR PUTTY	11700	7:1	4.3:1	Putty	16.4	25	66	350	2,000	3,900	12,700	6,475	9.0	17	1.88	41.0	370	0.0022	90
WEAR GUARD (HIGH LOAD)	11490	2:1	2:1	Putty	12.9	45	50	300	2,375	4,210	11,000	7,140	8.5	32	1.75	41.0	340	0.0006	87
WEAR GUARD (FINE LOAD)	11470	2:1	2:1	Putty	12.4	45	50	300	2,375	4,300	11,000	7,190	8.5	34	1.81	46.0	340	0.0014	87
CARBIDE PUTTY	10050	8:1	4:1	Putty	15.9	50	64	250	1,350	2,640	8,160	5,480	8.0	14	1.25	25.0	200	0.0009	85

(EMERGENCY REPAIR PRODUCT)

UNDERWATER REPAIR PUTTY (UW)	11800	14:1	1:1	Putty	17.0	45	68	250	2,685	2,760	5,625	4,990	7.5	18	1.41	8.6	150	0.0020	82
HVAC (SPECIAL F)	19770	0.9:1	1:1	Putty	16.1	60	64	250	2,500	3,720	8,420	6,260	7.8	29	1.73	21.4	100	0.0009	85
ZIP PATCH	11500	1:1	1:1	Set	-	5	-	200	2,400	10,000	-	19,000	2.9	64	1.71	43.5	250	0.0010	70

METAL CASTING

PLASTIC STEEL LIQUID (B)	10210	9:1	3:1	15/25,000	13.1	45	52	250	2,800	4,900	10,200	7,480	8.5	38	1.39	67.5	30	0.0006	85
ALUMINUM LIQUID (F2)	10710	9:1	5:1	15/25,000	17.5	75	70	250	2,700	5,000	9,820	3,540	7.5	50	1.58	8.6	100	0.0009	85
ALUMINUM WEAR	DE087	4:1	9:1	Putty	15.38	50	65	250	2,580	-	9,840	7,260	-	-	1.80	-	400	0.005	85

METHODS FOR MIXING DEVCON EPOXIES



CORRECT MIXING OF DEVCON 2-PART REPAIR AND COATING EPOXIES CREATES MAXIMUM STRENGTH AND ADHESION THREE (3) METHODS FOR MIXING DEVCON EPOXIES

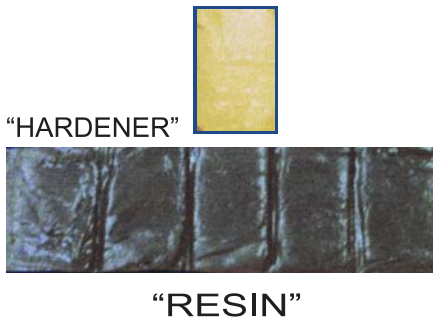
1. **“Whole Set Mixing”** (Complete Amounts of Resin and Hardener Mixed Together (Suitable for All Devcon Epoxies)
2. Proportional Mixing **“By Volume”** (Suitable for Devcon Epoxy Putty)
3. Proportional Mixing **“By Weight”** Using a Scale (Suitable for Devcon Epoxy Putty, Liquid Epoxy and Brushable/Trowelable Epoxies)

PLASTIC STEEL A

P/N 10110



Proportional Mixing



DEVCON BRUSHABLE CERAMIC-RED, BLUE, WHITE



WHOLE SET MIXING: Recommended
Proportional Mixing Weight (Using Scale): 5.6 (Resin) :1 (Hardener)

DEVCON 10260 BRONZE PUTTY (BR)



WHOLE SET MIXING: Recommended When Covering Large Areas
Proportional Mixing: Volume: 3 (Resin) :1 (Hardener)
Proportional Mixing: Weight (Using Scale): 9 (Resin) :1 (Hardener)

DEVCON 10760 TITANIUM PUTTY (BR)



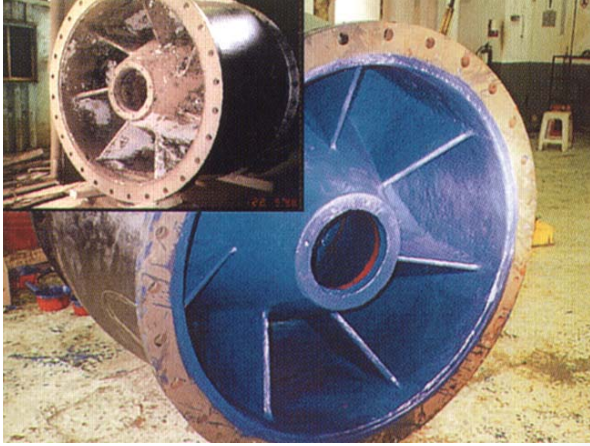
WHOLE SET MIXING: Not Recommended
Proportional Mixing: Volume: 3.1 (Resin) :1 (Hardener)
Proportional Mixing: Weight (Using Scale): 4.3 (Resin) :1 (Hardener)

Note:

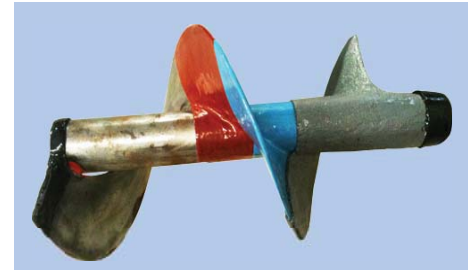
- (1) The **“Proportional Mixing”** by Weight or by Volume is found in the catalog or the Technical Data Sheet.
- (2) It is recommended that the **“RESIN”** Parts of Liquid and Brushable Epoxies Be Stirred Before Adding the Hardener to Loosen Any Solid Materials That May Have Settled to the Bottom.
- (3) Correct Mixing is When the Resin and the Hardener Are Mixed Together to Form a Single Color (The Color of The Resin). The Mixing of the Two-Parts Should Not Be Longer Than 30-45 Seconds.
- (4) When Mixing By Volume Caution Must Be Taken So That Mixing Tools Do Not Cross Contaminate the Resin and the Hardener.

ABRASION/CORROSION&WEAR

Devcon®



IMPELLER REPAIR BRUSHABLE CERAMIC



ABRASION/CORROSION & WEAR REPAIR EPOXIES

* Alumina Filled Epoxy * Strong Adhesion & Wear Resistance* * Protect Against Chemical Corrosion*Protect Dry Handling & Storage Machinery *Prepare Surface * Mix Properly * Apply by Troweling or Brushing*

Ceramic epoxies are used to rebuild and repair damage from abrasion/corrosion and wear on pump casings, impeller blades, valves, process machinery, circulating water equipment, chutes, hoppers and equipment used in corrosive and abrasive environments. Coating this equipment extends the working life and improves performance.

Ceramic Repair Putty: P/N 11700 3 lbs. (1.35 kg.) .66m @ .025 in (6.3mm) Thickness

Repairs: Rebuilds Pump Linings and Impellers, Fan Housing, Filter Plate

Drying Color: Red Putty. Working Time: 20 minutes.

Handling Time: Full Cure: 16 hours. Recoat Time: 2-3 hours

Volume Mix Ratio: 4.3: 1. Working Temperature: Temperature: Dry: 155C, Wet: 66C

Adhesive Tensile Strength: 2,000 psi (13.8MPa) Compressive Strength: 12,700 psi (87.56 MPa)

Hardness: 90 Shore D

Drying Color: Red Putty

TDS/MSDS:[http://www.devcon.com/products/products.cfm?family-](http://www.devcon.com/products/products.cfm?family-id=125&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)

[id=125&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA](http://www.devcon.com/products/products.cfm?family-id=125&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)



Brushable Ceramic: 2 lbs. (1 kg) 1.0 m @ .015 in (15 mils) Thickness

P/N 11760 -Red; P/N 11765 -Blue; P/N 11770 - White (certified safe for use with food and liquid processing equipment)

Repairs: Use with new equipment or after repair of worn metal to coat & seal metal surfaces. Provides exceptional corrosion and abrasion resistance for internal surfaces of pumps, impellers, valves, heat exchangers & production equipment.

Working Time: 20 minutes. Handling Time: Full Cure: 16 hours. Recoat Time: 2-3 hours

Mix Ratio (By weight): 5.6: 1. Working Temperature: Temperature: Dry: 155C, Wet: 66C

Adhesive Tensile Strength: 2,000 psi (13.8MPa) Compressive Strength: 15,200 psi (104.80 MPa)

Hardness: 90 Shore D

Chemical Resistance: excellent

Coating Thickness: 10-20mils (.010-.020 in.) Coverage: 1m²

Application Notes: 1 Pre-stir resin before adding hardener. 2 Mix hardener completely with resin. 3 To achieve a smooth and shiny surface brush the last coat lightly with MEK (Methyl Ethyl Ketone) before the Brushable Ceramic is completely dry.

TDS/MSDS: <http://www.devcon.com/products/products.cfm?family=Brushable%20Ceramic%20Red>



ABRASION/CORROSION&WEAR

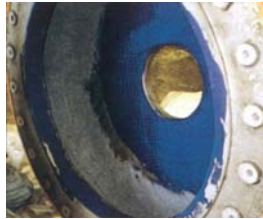
Devcon®



Repair/Line Chutes in Crushers with **Wear Guard High Load**



Repair/Line Cold Pipe Elbows with **Wear Guard High Load**



Repair/Line Pump Bodies with **Wear Guard Fine Load**



Repair/Line Delivery Pipe with **Wear Guard Fine Load**

HIGH-ALUMINA CERAMIC BEAD FILLED EPOXY SYSTEM FOR OUTSTANDING ABRASION RESISTANCE IN PROCESSING EQUIPMENT



WEAR GUARD HIGH LOAD P/N11490

Carbide Epoxy Putty: P/N 10050 3 lbs. (1.35 kg.) .04m² @ .025 in (6.3mm) Thickness

Repairs: Lower Cost Alternative to Ceramic Repair Putties and Epoxies For Rebuilding Metal and Providing Protection for Elbows, Pulverizers, Cyclones and Exhauster Liners.

Drying Color: Grey Putty. Working Time: 20 minutes. Handling Time: Full Cure: 16 hours

Volume Mix Ratio: 4: 1. Working Temperature: Dry: 100 °C, Wet: 49 °C

Adhesive Tensile Strength: 1,350 psi (9.3 MPa) Compressive Strength: 8,160 psi (56.26 MPa)

Hardness: 85 Shore D

TDS/MSDS:[http://www.devcon.com/products/products.cfm?family-](http://www.devcon.com/products/products.cfm?family-id=100&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)

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WEAR GUARD® TROWELABLE ABRASION/CORROSION & WEAR EPOXIES

Wear Guard High Load: P/N 11490- 30 lbs. 1.0m² @ .025 in (6.3mm) Thickness

Repair: Scrubbers, Ash Handling Systems, Pipe Elbows, Coal Pipe Lining, Screens, Chutes, Bins, Hoppers, Impellers. For Abrasion Resistance against particle size > 3.17mm

Drying Color: Non-sag Grey Putty. Working Time: 30 minutes. Handling Time: Functional Cure: 4-6 hours

Volume Mix Ratio: 2: 1. Working Temperature: Temperature: Dry: 132 °C, Wet: 60 °C

Adhesive Tensile Strength: 1,474 psi (10.16 MPa) Compressive Strength: 11,0000 psi (75.85 MPa)

Hardness: 87 Shore D

TDS/MSDS:[http://www.devcon.com/products/products.cfm?family-](http://www.devcon.com/products/products.cfm?family-id=118&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)

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Wear Guard Fine Load: P/N 11470- 30 lbs. 1.0m² @ .025 in (6.3mm) Thickness

For Abrasion Resistance against particle size < 3.17mm

Repair: Scrubbers, Slurry Pumps, Screens, Screw Conveyors, Chutes,

For Abrasion Resistance against particle size > 0.17mm

Drying Color: Non-sag Grey Putty. Working Time: 30 minutes. Handling Time: Functional Cure: 6-8 hours

Volume Mix Ratio: 2: 1. Working Temperature: Temperature: Dry: 132 °C, Wet: 60 °C

Adhesive Tensile Strength: 1,375 psi (9.48 MPa) Compressive Strength: 11,0000 psi (75.85 MPa)

Hardness: 87 Shore D

TDS/MSDS:[http://www.devcon.com/products/products.cfm?family-](http://www.devcon.com/products/products.cfm?family-id=118&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)

[id=118&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA](http://www.devcon.com/products/products.cfm?family-id=118&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)

Wear Guard High Temp: P/N 11480- 30 lbs. 1.2m² @ .025 in (6.3mm) Thickness

Special High Temperature Formula for Wear Resistance. Non-sag Putty.

For Abrasion Resistance against particle size < 3.17mm. High Temperature Applications.

Repair: Scrubbers, Ash Handling Systems, Pipe Elbows, Coal Pipe Lining, Screens, Chutes, Bins, Hoppers, Impellers. For Abrasion Resistance against particle size > 3.17mm

Drying Color: Non-sag Grey Putty. Working Time: 30 minutes. Handling Time: HEAT CURE

Volume Mix Ratio: 6: 1. Working Temperature: Temperature: Dry: 200 °C, Wet: 66 °C

Adhesive Tensile Strength: 2,300 psi (15.85 MPa) Compressive Strength: 13,200 psi (91.0 MPa)

Hardness: 87 Shore D

TDS/MSDS:[http://www.devcon.com/products/products.cfm?family-](http://www.devcon.com/products/products.cfm?family-id=119&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)

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ABRASION/CORROSION&WEAR



KEY FEATURES

- 4X better abrasion resistance than competition
- 7X better drop impact strength than ceramic tile
- Superior sliding abrasion resistance
- Withstands high impact conditions
- Less prone to unexpected fractures



P/N 11330

P/N 11340

DFense Blok™

DFense Blok™ is a revolutionary wear and abrasion protection epoxy compound formulated to significantly outlast traditional wear and abrasion products while also providing superior performance in the most severe conditions.

DFense Blok TROWELABLE ABRASION/CORROSION & WEAR EPOXIES

DFense Blok: **P/N 11330**- 30 lbs. 1.0m @ .025 in (6.3mm) Thickness

Repair: Scrubbers, Ash Handling Systems, Pipe Elbows, Chippers, Screens, Chutes, Bins, Hoppers, Impellers. For Abrasion Resistance against particle size < 3.17mm

Drying Color: Non-sag Grey Putty. Working Time: 30 minutes. Handling Time: Functional Cure: 4-6 hours

Volume Mix Ratio: 2: 1. Working Temperature: Dry: 132 C, Wet: 60 C

Flexural Strength: 7,876 psi (54.30 MPa) Adhesive Tensile Strength: 2616 psi (18.03 MPa) Compressive Strength: 7,145 psi (71.45 MPa) Hardness: 77 Shore D

Chemical Resistance: Very Good

TDS/MSDS:[http://www.devcon.com/products/products.cfm?family-](http://www.devcon.com/products/products.cfm?family-id=505&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)

id=505&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA

DFense Blok Surface Wetting Agent :P/N 11340- 1 lb. 1.16m @ 0.01 in (12 mil)

Use: Use with DFense Blok and other Devcon Abrasive Wear Epoxies , High Load and Fine Load for ease of application and improved cured adhesion properties (shear, peel, impact)

Drying Color: Orange Gel. Working Time: 10 minutes. Handling Time: Functional Cure: 4-6 hours

Volume Mix Ratio: 2: 1. Working Temperature: Dry: 132 C, Wet: 60 C

Adhesive Tensile Strength: 2616 psi (18.03 MPa) Compressive Strength: 5,032 psi (34.69 MPa)

Hardness: 71 Shore D

Chemical Resistance: Excellent

TDS/MSDS:[http://www.devcon.com/products/products.cfm?family-](http://www.devcon.com/products/products.cfm?family-id=506&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)

id=506&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA

Surface Wetting Agent : P/N 11340



DFense Blok : P/N 11330 (30 Lbs.)

POWER Mixer with Paddle



SUGAR FACTORY



SUGAR FACTORY-MRO

RAW CANE PROCESSING: KNIFE REPAIR & CONVEYOR BELT REPAIR

Problem: Damage to cutting knives and steel conveyor belts

Solution: Use **Devcon 10760** Titanium for excellent wear resistance & adhesion (p. T4)
Use **Devcon 10110** Plastic Steel A for General Metal Repair (p. T2)

CRUSHING- GROOVED ROLLERS & CENTRIFUGAL BASKETS

Problem: Abrasion and Corrosion Damage on Grooved Roller

Solution: Use **Devcon 11700** Ceramic Repair Putty to repair worn areas before coating

Use **Devcon 11760** (red) & 11765 (blue) Brushable Ceramic to coat Grooved Roller (p. T-7)

Use **Devcon 10760** Titanium to repair worn shaft (p. T4)

Problem: Abrasion and Corrosion Damage on Centrifugal Basket

Solution: Use **Devcon 11760** (red) & 11765 (blue) Brushable Ceramic to coat Basket (p. T-7)

Use **Devcon 10780** Wear Resistant Putty to rebuild worn areas (p. T-4)

BAGASSE HANDLING: CORROSION & ACID PROTECTION

Use **Devcon 11700** Ceramic Repair Putty to repair worn areas before coating (p. T7)

Use **Devcon 11760** (red) & 11765 (blue) Brushable Ceramic to coat Grooved Roller (p. T-7)

Use **Devcon 10270** (ST) Stainless Steel Putty to repair tanks and sheets made of stainless steel (p. T3)

JUICE PRODUCTION- SPLIT CASE PUMPS (p. T9& 10)

Use **Devcon 11760** (red) & 11765 (blue) Brushable Ceramic to internally coat pumps (p. T-7)

CO-GENERATION (p.T14)

Exhaust Fans- Use **Devcon 11760** (red) & 11765 (blue) Brushable Ceramic to coat fan impellers (p. T-14).

HEAT EXCHANGERS- Heat Exchanger Repair (p T23)

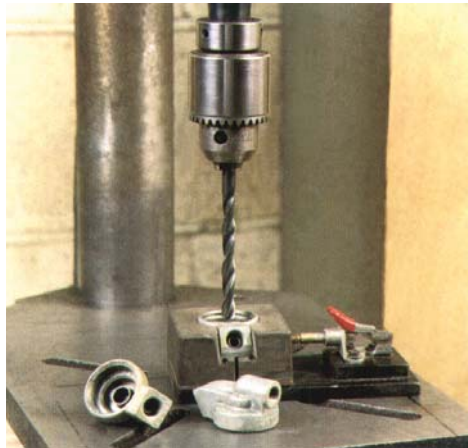
CANE SUGAR REFINERY

SUGAR CANE



CASTING & MOLDING

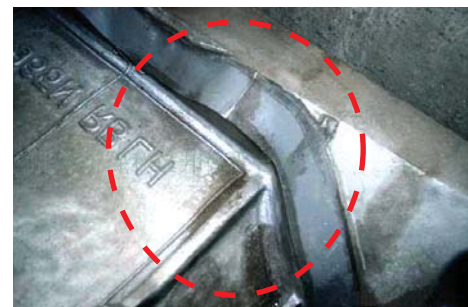
Devcon®



PLASTIC STEEL LIQUID **P/N 10210**



Alumimum Wear Compound **P/N DE 087**



RUBBER CASTING **P/N 15800**



P/N 205200

MOLD, CASTING & LIQUID EPOXY COMPOUNDS STEEL AND ALUMINUM CASTING

Plastic Steel® Liquid B: **P/N 10210-** 454 gr. .03m @ .025 in (6.3mm) Thickness

P/N 10230- 11.36 KGS (25 LBS.). .083m @ .025 in (6.3mm) Thickness

Use: Steel Filled Liquid Epoxy for making holding fixtures, forming dies & molded parts. Once hardened, material can be drilled, tapped, and machined. Low Viscosity. Self-Leveling

Drying Color: Dark Grey Liquid. Brush a thin coat on the mold substrate, then pour.

Working Time: 20 minutes. De-molding Time: 12 hours. Full Cure: 16 hours.

Mix Ratio By Weight: 9:1. Working Temperature: Dry: 105C, Wet: 50C

Adhesive Tensile Shear Strength: 2,800 psi. (19.30 MPa)

Compressive Strength: 10,200 psi (70.32 MPa)

Hardness: 85 Shore D

TDS/MSDS:[http://www.devcon.com/products/products.cfm?family-](http://www.devcon.com/products/products.cfm?family-id=102&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)

[id=102&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA](http://www.devcon.com/products/products.cfm?family-id=102&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)

Aluminum Liquid F-2: **P/N 10710-** 454 gr. .045m @ .025 in (6.3mm) Thickness

Use: Aluminum Filled Liquid Epoxy for making holding fixtures, forming dies & molded parts. Self-Leveling. Use for leveling fixtures. Once hardened, material can be drilled, tapped, and machined. Can be machined to metallic finish.

Drying Color: Aluminum Liquid. Brush a thin coat on the mold substrate, then pour.

Working Time: 20 minutes. De-molding Time: 10 hours. Full Cure: 16 hours.

Mix Ratio By Weight: 9:1. Working Temperature: Dry: 105C, Wet: 50C

Adhesive Tensile Shear Strength: 2,700 psi. (18.62 MPa)

Compressive Strength: 9,820 psi (67.70 MPa)

Hardness: 85 Shore D

TDS/MSDS:[http://www.devcon.com/products/products.cfm?family-](http://www.devcon.com/products/products.cfm?family-id=108&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)

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Flexane 80 Liquid B: **P/N 15800-** 454 gr. .045m @ .068 in (6.3mm) Thickness

Use: Urethane Filled Liquid Epoxy for making rubberized holding fixtures, forming dies & molded parts. Once hardened, material can be drilled, tapped, and machined. Cover and Protect electrical components and wire from impact & vibration

Drying Color: Black Rubber Liquid. Brush a thin coat on the mold substrate, then pour.

Application Note: Used hot air blower on external surface of mold to remove air bubbles from mixture.

Working Time: 20 minutes. De-molding Time: 10 hours. Full Cure: 16 hours at Room Temp.

Mix Ratio By Weight: 77:23. Working Temperature: Dry: 82C, Wet: 50C

Tensile Strength: 2,100 psi. (14.48 MPa)

Tear Resistance: 350 pli

Hardness: 87A Shore D

TDS/MSDS:[http://www.devcon.com/products/products.cfm?family-](http://www.devcon.com/products/products.cfm?family-id=151&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)

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MOLD PERFORMANCE AND REPAIR EPOXIES

Aluminum Wear Compound: **P/N DE087** 20 lbs. (9kgs.) .042m @ 0.5 in (12.5mm) Thick

Use: Seal or Repair Leading Edges of Molds* Fill Pores or Voids in Castings* Bi-Metal Corrosion Protection

Drying Color: Dark Grey Putty.

Working Time: 30 minutes. Fixture Time: 4 hours @ 0.5" 12.5 mm. Full Cure: 12-16 hours.

Mix Ratio By Weight: 9:1. Working Temperature: Dry: 121C, Wet: 50C

Flexural Strength: 7,260 psi. (65.36 MPa)

Compressive Strength: 9,480 psi (65.3 MPa)

Hardness: 88 Shore D

TDS/MSDS: Please Contact AECS SUPPLY Co.,Ltd.

METALLIC PUTTY: **P/N 205200** (200 gr.) .042m @ 0.5 in (12.5mm) Thick

Use: Repair and Metallic Polished Finish on Internal Mold Surfaces. Create Miniature Models.

Drying Color: Light Grey Aluminum. Three (3) Part Mixture.

Working Time: 10 minutes. Cure Time: 8 hours

Mix Ratio By Weight: 5:1. Working Temperature: Dry: 160C

Flexural Strength: 700-800 kg/cm

Compressive Strength: 600-700 kg/cm

Hardness: 92-97 Shore D

TDS/MSDS: Please Contact AECS SUPPLY Co.,Ltd.

QuikAlum Epoxy Stick

See: "Special Repair Epoxy" Page

RUBBER REPAIR EPOXY

Devcon®

URETHANE RUBBER REPAIR EPOXY PRIMERS

Note: Use the following Devcon Primers for the best results:

P/N 15980 (FL-10) For applying Devcon Urethane Epoxies to Metals

P/N 15985 (FL-20) For applying Devcon Urethane Epoxies to Rubber, Wood, Fiberglass and concrete. Apply before re-coating with a second application of Devcon Urethane Epoxies.

P/N 15984 (FL-40) Used for Maximum Peel Strength when applying to Rubber products.

Flexane 80: P/N 15820 1 lb. (454 gr.) .06m² @ .025 in (6.3mm) Thickness

Line or Repair Process Equipment subject to impact, abrasion, vibration, expansion & contraction Repair Tear & Cracks in Conveyor Belts. *Use in molding fixtures* Noise Reduction* Specialized Repair of Industrial Rubber Liquid and Solids Delivery Hoses* Specialized Repair of Voids and Cracks in Heavy Equipment Tires* Rubber Roll Repair*

Drying Color: Black Med. Hard Rubber. Working Time: 15 minutes. Full Cure: 16 hours.

Mix Ratio: Mix Completely for Best Results.

Volume Mix Ratio: 72:28. Working Temperature: Dry: 121°C, Wet: 50°C

Tensile Strength: 1,700 psi. (11.71 MPa) Tear Resistance : 300 pli

Hardness: 87A Shore D

TDS/MSDS: [http://www.devcon.com/products/products.cfm?family-](http://www.devcon.com/products/products.cfm?family-id=152&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)

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Flexane 80 : P/N 15820

Flexane HP Putty: P/N 15330 1 lb. (454 gr.) .06m² @ .025 in (6.3mm) Thickness

Tough, Flexible Urethane Epoxy Line or Repair Process Equipment subject to Impact, Abrasion, Vibration, Expansion & Contraction* Repair Tears & Cracks in Conveyor Belts. *Use in molding fixtures* Noise Reduction* Repair of Industrial Rubber Liquid & Solids Delivery Hoses* Specialized Repair of Voids and Cracks in Heavy Equipment Tires* Highly Resistant to Impact and Abrasion.

Drying Color: Black Med. Hard Rubber. Working Time: 15 minutes. Full Cure: 16 hours.

Mix Ratio: Mix whole set for best results.

Volume Mix Ratio: 94:6. Working Temperature: Dry: 82°C, Wet: 24°C

Tensile Strength: 4,500 psi. (31.02 MPa) Tear Resistance : 400 pli

Hardness: 78A Shore D

TDS/MSDS: [http://www.devcon.com/products/products.cfm?family-](http://www.devcon.com/products/products.cfm?family-id=149&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)

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Flexane HP Putty : P/N 15330

Flexane Brushable: P/N 15350- 1 lb. (454 gr.) 1.0m² @ .50 mils in (1.27mm) Thickness

Coat Equipment subject to Impact, Abrasion & Wear Create a Wear Buffer between Metal Pipe and Pipe Supports* Repair & rebuild internal rubber coated parts in pumps, valves and tanks* Excellent impact and abrasion resistance.

Drying Color: Black Med. Hard Rubber. Working Time: 15 minutes. Full Cure: 24 hours.

Mix Ratio: Mix completely for best results. Application Rate: 50 mils (1.27mm) /coat

Volume Mix Ratio: 80:20. Working Temperature: Dry: 82°C, Wet: 50°C

Tensile Strength: 3,500 psi. (24.13 MPa) Tear Resistance: 400 pli

Hardness: 86A Shore D

TDS/MSDS: [http://www.devcon.com/products/products.cfm?family-](http://www.devcon.com/products/products.cfm?family-id=150&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)

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MDL. FL-10
METAL PRIMER

MDL. FL-40
RUBBER PRIMER

MDL. FL-20
ADHESION PRIMER

APPLICATIONS



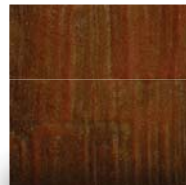
Delivery Hose Repair



Mdl. 15330 + FL-20



Mdl. 15350 Brushable
Coat Pipe Racks /
Prevent Damage



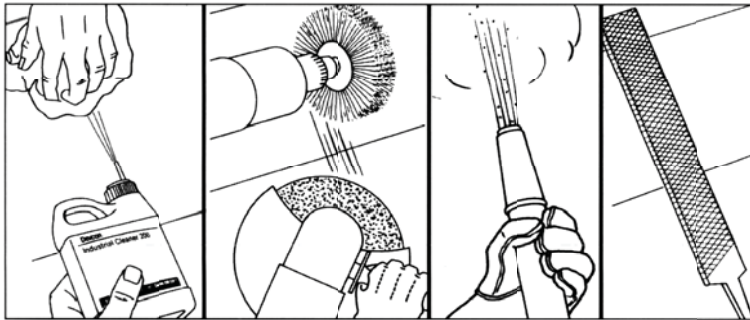
Mdl. 15350 Brushable
Coat Metal / Lower
Vibration



Mdl. 15820 Flexane Putty
Coat Metal / Lower Impact
Damage

CLEANING & PRIMING RUBBER

Devcon®



Surface Preparation for Flexane Technology

The successful application of any product in the Devcon Industrial Product Line is largely dependent on proper surface preparation. Flexane urethane technology has stringent preparations that must be met to ensure a successful application. Dust, dirt, oil, grease, rust and dampness affect adhesion of *all* Flexane products. Surface conditions will vary from job to job while temperature and humidity condition change "hourly". The following guidelines will help to prepare the substrate for use with *Devcon Flexanes*. This section describes the general surface preparation, as well as the methods to use to prepare the surface.

General Surface Preparation

1. All surfaces must be dry, clean and rough.
2. Stop all liquids from leaking onto the surface, while repairing the substrate.
3. Remove all paint, rust, and grime from surface by abrasive blasting or other mechanical techniques.
4. Degrease area with **Devcon Cleaner Blend 300**.
5. Provide a "profile" on metal surfaces and rubber surfaces by roughening the surface.
6. Moisture in the surface will affect adhesion of urethane materials. Always remember to use the appropriate primer for maximum adhesion to that substrate.

Clean Surfaces - Rubber

1. First, using a grinder with a wire wheel or rubber rasp, grind the surface to produce a good "surface profile". Oils and contaminants that are imbedded into the rubber surface are usually released at this time.
2. User **Devcon's Cleaner Blend 300** with an abrasive pad to remove all the oil and grease from the rubber's surface to get a clean surface.
3. Wipe the surface with a clean lint-free cloth numerous times until black residue no longer transfers onto the white cloth.

Clean Surfaces - Metal

4. If the metal surface is oil or greasy, use Devcon Cleaner Blend 300 to cleanse the surface.
5. After this recommended method of cleaning, abrasive blasting is done to the surface to produce a good "surface profile". Oils and contaminants usually get imbedded into the surface, and do not wash away with degreasing. Use a 25-40 grit or coarser abrasive for this process.
6. If you cannot abrasive blast the substrate, you may use a coarse sandpaper (60 grit or coarser), to achieve the desired surface.
7. Always try to make the repair as soon as possible after cleaning the substrate, to avoid oxidation or flash rusting. Immediately coating the metal with FL-10 primer will keep the metal surfaces from rusting.

Clean Surfaces - Concrete

8. Concrete being a very porous substrate requires multiple cleaning. Degrease the area with Cleaner Blend 300 or any water-based emulsion cleaner and rinse the area. Multiple cleaning may be necessary. A power washer or steam cleaner is useful for this step. Let the floor dry thoroughly before applying Primer and Flexane.

Degreasing

The degreasing of surface that are immersed in oil is usually very difficult to do. There is the possibility that the absorbed oil out in the metal surface will cause an adhesion problem while the Flexane is curing. An oily feeder bowl, or a gasket area are excellent examples of problem areas that would be immersed in oil prior to using Devcon Flexane Urethanes.

1. Apply **Cleaner Blend 300** to the oily surface. Repeated application of these cleaners will help to "draw" the oil of the surface. When cleaning a rubber surface, the use of an abrasive pad will help in the degreasing process.
2. Absorbed oil from metal surfaces that have been constantly immersed in oil should be removed by heat. The heat forces the oil of the pores. Heating the part with a heat gun, or putting the part in an oven will produce this effect. Repeat heating the metal surface followed by cleaning until no oils are present.

Surface Roughening

Always abrade a smooth surface to increase the adhesion of the Flexane to the substrate. Many field applications are redone because someone neglected to obtain a good surface profile.

1. If the surface was cleaned by abrasive blasting, shotblasting, or disc sanding, the "roughened" effect should be sufficient to proceed.
2. Otherwise, roughen the surface with a coarse file, an abrasive pad or sandpaper to get a surface profile.

Substrate Priming

Many field applications using Devcon's Flexane technology are unsuccessful because the technician fails to use the proper primers to adhere the Flexane to the substrate. There are 2 different priming systems to use when applying Flexane. They are as follows:

1. **Metal Surfaces** : Use 2 coats Devcon's **FL-10** Primer to coat all metal substrates. This applies to stainless steel and aluminum too!
2. **Rubber Surfaces** : Use Devcon's **FL-20** Primer to coat all gum rubbers, neoprene, or cured urethane.
3. **Immersion Substrates**: Use both Primers, **FL-10** and **FL-20** to coat any metal substrate that will be immersed in any aqueous solution. First apply the FL-10 Primer and let dry 60 minutes. Next coat with the FL-20 Primer. Let dry 30 minutes before applying the Flexane material.
4. **Concrete**: Use Devcon's **FL-20** Primer to coat this substrate. Concrete being a very "porous" substrate may need multiple coats of FL-20 Primer for proper adhesion. Let Primer dry 30 minutes between coats.
5. **Wood, Fiberglass**: Use Devcon's **FL-20** Prime for all wood products. The soft woods will need 2 coats of Prime because of their absorption characteristics.

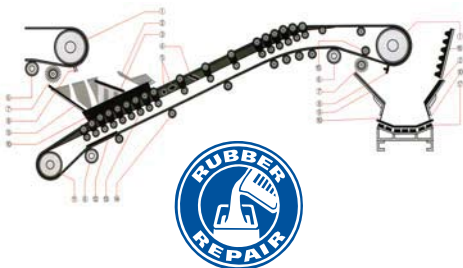
It should be noted that applying 2 coats of FL-10 Primer to metal substrates will improve the adhesion over a 1 coat priming system.

All other substrates, please consult factory for a proper selection of Primers and their correct application procedures.

BELT REPAIR

SPECIALIZED CONVEYOR BELT, COATING AND SEALING RUBBER EPOXY COMPOUNDS

Devcon®



FLEXANE 80 PUTTY: 15820



Flexane 80 Liquid : 15800

DEVCON R-FLEX Belt Repair P/N 15565 1 lb. (454 gr.) P/N 15565 4lbs. (1.8 kg.)

Devcon® R-Flex® is formulated to quickly repair tears, gouges, and holes in styrene-butadiene rubber (SBR) heavy weight conveyor belts. Offering excellent abrasion resistance as well as superior adhesion, the R-Flex® urethane compound is easy to mix and cures quickly — the repaired belt can be back in service just 90 minutes after application. High Adhesion to SBR Belts.

Drying Color: Black Med. Hard Rubber. Working Time: 7 minutes. Functional Cure: 90 min.

Full Cure: 16 hours. Self- Leveling, Non-Sag

Mix Ratio: Mix completely for best results.

Volume Mix Ratio: 88:12. Working Temperature: Dry: 121 °C, Wet: 50 °C

Adhesion 7 days : 128 pli. Tear Resistance : 1,462 pli. Abrasion Resistance: 270 mg loss/1,000 rev.

Hardness: 92A Shore A

TDS/MSDS:[http://www.devcon.com/products/products.cfm?family-](http://www.devcon.com/products/products.cfm?family-id=521&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)

[id=521&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA](http://www.devcon.com/products/products.cfm?family-id=521&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)



Flexane 80: P/N 15820 1 lb. (454 gr.) .06m @ .025 in (6.3mm) Thickness

*Line or Repair Process Equipment subject to impact, abrasion, vibration, expansion & contraction*Repair Tear & Cracks in Conveyor Belts. *Use in molding fixtures*Noise Reduction* Specialized Repair of Industrial Rubber Liquid and Solids Delivery Hoses* Specialized Repair of Voids and Cracks in Heavy Equipment Tires*Rubber Roll Repair*

Drying Color: Black Med. Hard Rubber. Working Time: 15 minutes. Full Cure: 16 hours.

Mix Ratio: Mix completely for best results. Volume Mix Ratio: 72:28. Working Temperature: Dry: 121 °C, Wet: 50 °C

Tensile Strength: 1,700 psi. (11.71 MPa) Tear Resistance : 300 pli

Hardness: 87A Shore D

TDS/MSDS:[http://www.devcon.com/products/products.cfm?family-](http://www.devcon.com/products/products.cfm?family-id=152&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)

[id=152&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA](http://www.devcon.com/products/products.cfm?family-id=152&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)



URETHANE RUBBER LIQUID EPOXY COMPOUNDS

Flexane 80 Liquid: P/N 15800- 1 lb. (454 gr.) .06m² @ .025 in (6.3mm) Thickness

Use: Urethane Rubber Liquid Epoxy for making rubber parts, forming molds dies & non-scratching holding fixtures & linings. Encapsulate Wire & Electronic parts from impact, vibration, expansion & contraction * Can be drilled and machined*

Note: use blow dryer to remove air bubbles when making molded parts.

*Line or Repair Process Equipment subject to impact, abrasion, vibration, expansion & contraction*Repair Tear & Cracks in Conveyor Belts. *Use in molding fixtures*Noise Reduction* Specialized Repair of Industrial Rubber Liquid and Solids Delivery Hoses* Specialized Repair of Voids and Cracks in Heavy Equipment Tires*Rubber Roll Repair*

Drying Color: Black Med. Hard Rubber.

Working Time: 20 minutes. Demolding Time: 10 hours Full Cure: 16 hours. No Heat Required

Mix Ratio: Mix completely for best results. Mix Ratio By Weight: 77:23

Working Temperature: Dry: 121 °C, Wet: 50 °C

Tensile Strength: 2,100 psi. (11.71 MPa) Tear Resistance : 350 pli

Hardness: 87A Shore D

TDS/MSDS:[http://www.devcon.com/products/products.cfm?family-](http://www.devcon.com/products/products.cfm?family-id=151&sr=1&CFID=224217973&CFTOKEN=ba731160ca429311-1511AA2F-B1E9-1309-BD89D99D825C57BA)

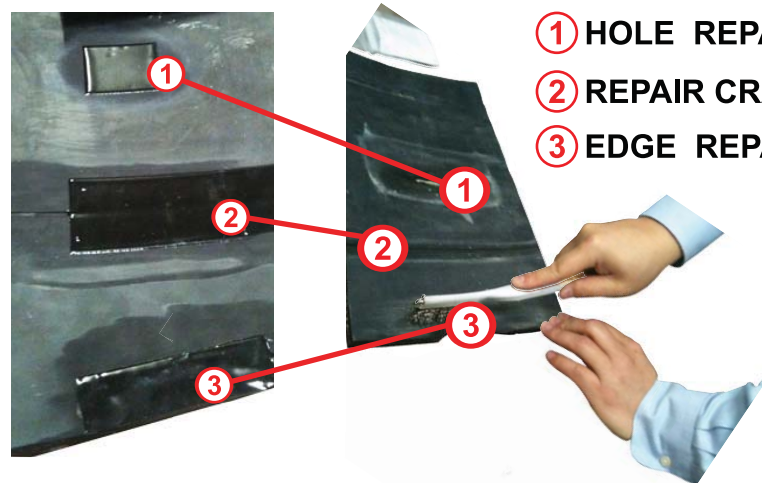
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BELT REPAIR

Devcon®

R-FLEX BELT REPAIR TECHNOLOGY



- ① HOLE REPAIR
- ② REPAIR CRACKS
- ③ EDGE REPAIR

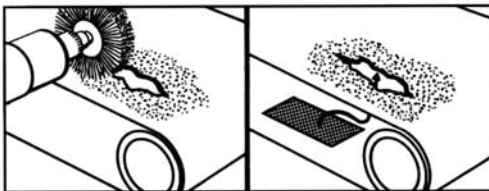


Figure 1



Figure 2

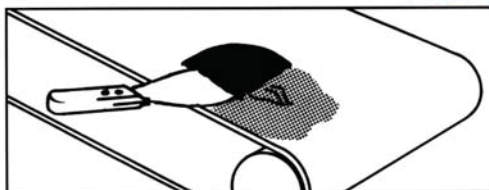


Figure 3

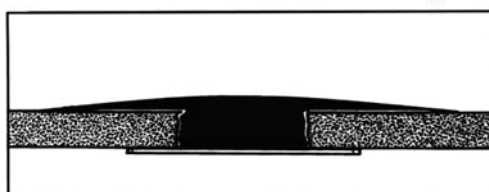


Figure 4

Urethane Molding and Rubber Repairing

Conveyor Belt Repairs

DEVCON R-FLEX P/N 15565 (URETHANE BELTS)

Two different types of belting repairs can be performed with Devcon's Flexane technology. The most common repair is a "hole" in belt. This is caused when by the aggregate being transported wedges itself into the wiper area, thus a tear or hole in the belt. The other type of repair occurs at the "Clips". This area is where the belt is spliced. Some conveyer belts have metal detectors at the pulley area, so you need to coat the clip area to hide the metal pins. The fine aggregate gets into the pins of the metal splice and wears out the "pins". Therefore it is recommended that the metal splice area be coated with Flexane. We will show both repairs. They are as follows:

1.Surface Preparation : Follow the section under " Clean Rubber Surfaces "

Remember to grind the belt area well, to get good adhesion. **Figure1.**

For a "Tear" or "Hole" in Belt : First apply duct tape underneath the belt to stop anything from going through. Then abrade the area, cleaning off the dust when finished. **Figure 2.**

2.Apply FL-20 Primer around the tear area and approximately 4-8 inches around the tear. Let dry for 30 minutes.

3. Mix Flexane 80 Putty and apply into the tear and around the tear area 4-8 inches.

Figure 3.

4. By applying Flexane 80 Putty around the tear area and "feathering out" the Flexane material, you make a repair that will be almost on the same plane as the belt, not a "bump" on top of the belt. Apply at least an 1/8" of material to the belt for strength and flexibility. **Figure 4.**

RUBBER ROLLER REPAIR

Devcon®

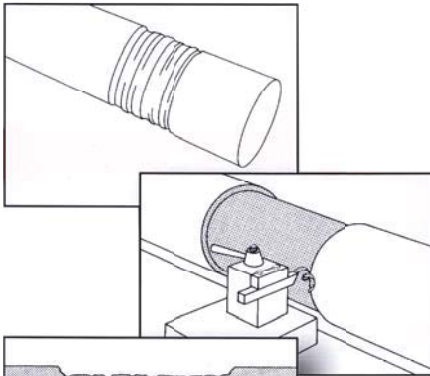


Figure 1

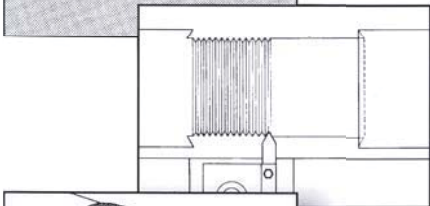


Figure 3

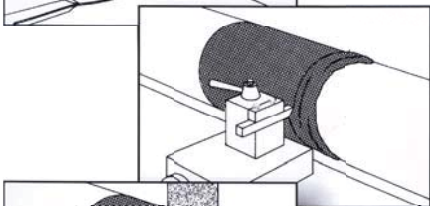


Figure 4

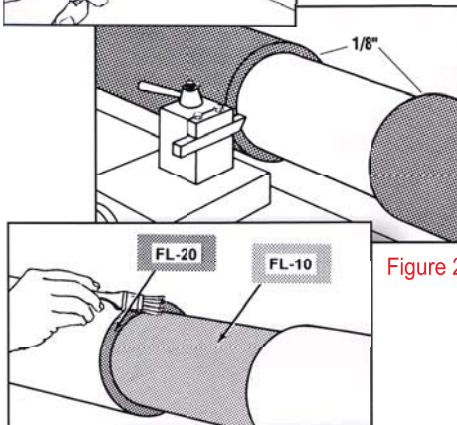


Figure 2



ROLLER REPAIR IN PRINTING FACTORY



Rubber Roll Repair/Rubber Linings

Flexane's ability to "adjust" its durometer has always been an excellent feature in helping to repair rubber rolls in the paper industry. The rubber-lined condenser water boxes also provide an excellent application for our Flexane products. These two applications are done in the field today. Roll repairs require a careful surface preparation and application savvy to ensure the Urethane material adheres to both the metal shaft and rubber coating. Here is a typical application for a rubber roll :

1. Surface Preparation : Clean the surface of the rubber roll to get all oils and greases out of the surface. Follow the *Degreasing Section* of this manual.

Then while the roll is on the lathe, machine the worn rubber completely off the roll. You may take the rubber down to the metal "core" shaft, or just "undercut" the rubber at least a 1/8". Be sure to leave a "distinct" edge on both sides of the worn area. **Figure 1.**

2. After the roll has been completely cleaned, apply **FL-10** Metal Primer to the metal "core" of the roll, and then apply **FL-20** Rubber Primer to the "edges" of the rubber, and over to the **FL-10**.

Note: If you are only going to machine a small portion of the rubber off this roll to rebuild the roll back to its original shape, make sure the "edges" of the roll are coated with FL-20 Primer. This is essential for good adhesion. **Figure 2.**

3. After all the priming has been completed, you are ready to apply the Flexane material. Have the lathe move slowly in a clockwise direction. As the roll is "turning", start to apply the Flexane material. Be sure to compress the urethane onto the metal shaft and into the "edges" of the existing rubber. Try to make the finish of the repair as smooth as possible. Let the lathe spin for a few hours, allowing the Flexane material to "set-up" and cure.

Note: Sometimes a "thick" build up of urethane material, if not continuously kept in motion, will tend to "drop off" or "seg". **Figure 3.**

Now you are ready to machine the rubber repair. Machining the repair can be difficult. Remember the frictional heat that builds up when machining will cause the Flexane to "rip and tear", leaving a rough surface.

Machining instructions: For grinding, use a No. 60 diamond wheel. For machining, use a carbide bit, taking a "small pass" without generating a great amount of frictional heat.

Figure 4.

Rubber Repair Selector Guide

Devcon®



Flexane Applications

Flexane 80 putty *P/N 15820*
 Flexane High Performance Putty *P/N 15330*
 Flexane Fast Cure Putty *P/N 15049*
 Flexane Fast Cure Liquid *P/N 15050*
 Flexane Brushable *P/N 15350*
 Cable Cast FR
 R-Flex Belt Repair Kit *P/N 15565*
 Flexane 80 Liquid *P/N 15800*
 Flexane 94 Liquid *P/N 15250*
 Edge & Seal *P/N OF 039*
 High Temp Edge & Seal *P/N OF 045*

Casting Molds, Rubber Parts							▼	▼	▼		
Conveyor Belt Repair	▼		▼	▼			▼				
Coatings Chutes / Hoppers	▼	▼			▼						
Coating (Impact Abrasion)	▼	▼			▼						
Expansion joints / Control joints			▼	▼							
Feeder Bowl Coating	▼	▼									
Gaskets										▼	▼
Holding Fixtures								▼	▼		
Metal Coatings		▼	▼	▼	▼			▼	▼		
Mold Molding								▼	▼		
Noise Reduction Coating	▼							▼	▼		
Potting Compound						▼				▼	▼
Repair Rubber Rolls	▼						▼	▼	▼		
Re-Packing Electrical Cable						▼					

EMERGENCY REPAIR

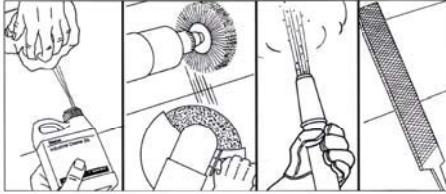
Devcon®



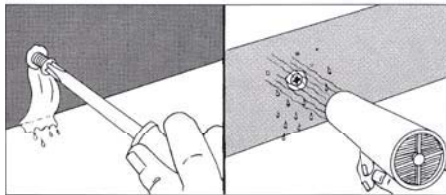
REPAIR

High-performance technology for repairing, patching, and rebuilding equipment in habitually wet environments, including under water.

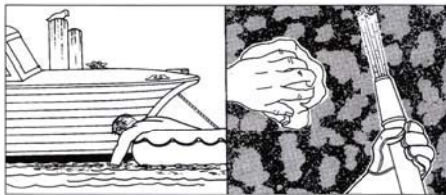
SURFACE CLEANING



DRY & CLEAN



UNDER WATER REPAIR



UW P/N 11800



RepairitQuik

Underwater Repairs

Surfaces underwater cannot receive the same surface preparation previously outlined in this surface prep guide, but they do need some attention. They are as follows:

1. Remove all dirt, barnacles, flaking paint, and algae/seaweed from the substrate.
2. Wipe area with a clean cloth to remove any film on the surface. Obviously you cannot degrease underwater, but wiping and turning a clean cloth often will remove any film on the surface.
3. Abraid the surface if possible. (use mechanical means or a file to accomplish.)
4. The oxidation can be removed by mechanical means, such as water, grit-blasting, or by chemical means.

Underwater Repair Putty (UW): P/N 11800 (454 gr.) .04m² @ .025 in (6.3mm) Thick

Repairs: Penetrates wetness to bond securely to steel, iron, aluminum, brass, bronze, concrete, wood, and some plastics. Invaluable for use in pulp and paper mills, wastewater treatment plants, and marine environments. Eliminates the need for substrate to be thoroughly dry before repair. Non-rusting; easy-to-mix and apply. Non-sagging. Bonds, patches and seal metals.

Drying Color: Grey Putty. Working Time: 30 minutes. Full Cure: 24 hours.

Volume Mix Ratio: 1:1. Working Temperature: Dry: 100°C, Wet: 50°C

Adhesive Tensile Shear Strength: 2,685 psi. (18.51 MPa)

RepairitQuik Epoxy Putty Stick is a hand-kneadable, fast-setting polymer compound for permanent repairs to many surfaces including metals, wood, glass, concrete, ceramics and numerous plastics. This general-purpose epoxy putty comes in a handy "Tootsie-Roll®" form with the curing agent encapsulated in the contrasting color base material.



Certified to Standard 61 by The National Sanitation Foundation for use in contact with drinking water.

QuikAluminum Epoxy Putty Stick is a hand-kneadable, fast-setting, aluminum-reinforced polymer compound for permanent repairs to anything made of aluminum. It also bonds to other metals, wood, glass, masonry and many plastics. It comes in a handy "Tootsie-Roll®" form with the curing agent encapsulated in the contrasting color base material.

FACTORY PACK

Devcon®

ADHESIVES

FACTORY PACK- Industrial Size Packaging for Production Lines. Saves Time and Money.

2 Ton® 2-Part Epoxy Adhesive P/N 14360 (9lbs/Set) P/N 14310 (Dev-Tube)

Extremely strong, water-resistant epoxy adhesive that forms a powerful bond with ferrous and non-ferrous metals, ceramics wood, concrete, or glass in any combination.

Extremely strong, medium-cure, water-resistant clear adhesive that will self-level after application.

Intended Use: Bonding parts in a structural environment or potting electronic components and assemblies Product features: Cures without shrinking Cures at room temperature Good impact resistance Produces strong, rigid bond on metal, ceramics, wood, concrete, glass, or combinations.

KEY FEATURES

- Fills poorly mated joining surfaces while providing excellent adhesion
- Water resistant formula
- Good impact resistant
- Can be used to encapsulate parts
- Listed under NSN stock #8040-00-162-9704

5 Minute® Epoxy Adhesive P/N 14630 (9lbs/Set) P/N 14250 (Dev-Tube)

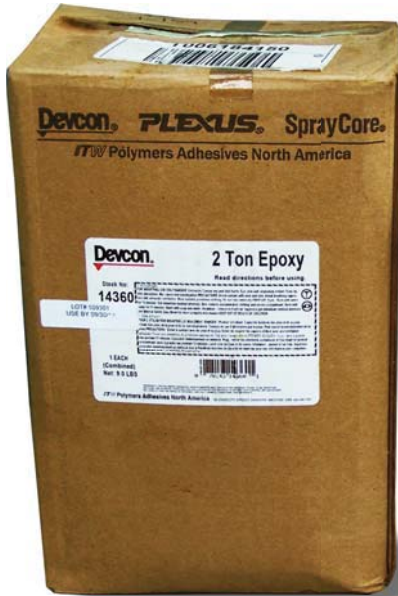
Rapid-curing, general-purpose adhesive/encapsulant which easily dispenses and mixes in seconds, dries in 15 minutes and reaches functional strength in 1 hour.

Intended Use: Bonds metals, fabrics, ceramics, glass, wood, and concrete (in combinations) Product

Features: 100% reactive, no solvents Good solvent resistance Bonds metals, fabrics, wood, and concrete

KEY FEATURES

- Bonds rigid durable substrates such as metals, glass, ceramics, concrete and wood in all combinations
- Forms a clear hard rigid bond self-leveling liquid in minutes
- Listed under NSN Stock#8040-00-264-6816:#8040-01-067-6126
- Functional strength in 1 hour
- 100% reactive, no solvents



PHYSICAL PROPERTIES

Devcon®

ADHESIVES

	OEM Material	5 Minute Epoxy 14250/14630	2Ton Clear Epoxy 14310/14360	Epoxy Plus 25 14278	Plastic Welder 14335/14340	Flex Welder 14345	Metal Welder/ Metal Welder II 14366/14363
METAL	Aluminum	*	*	*	○	○	*
	Brass	*	*	*			
	Cast Iron	*	*	*	*	✓	*
	Copper	*	*	*			
	Ferrite	✓	✓	*	*	✓	*
	Painted metals	✓	✓	✓	✓	✓	*
	Plated metals				✓		✓
	Sheet metal			*	*		*
	Stainless steel1	*	*	*	○	○	*
	Cold rolled steel	*	*	*	*	*	*
	Galvanized			*		○	
PLASTIC	ABS			✓	*	✓	*
	Acrylics			*	*	✓	*
	Fiberglass	✓	✓	*	*	*	*
	Gel coats			*	✓	✓	*
	Epoxy	✓	✓	*	*	✓	*
	Polyamides(Nylon)			*	*	✓	○
	Polyester			*	*	*	*
	Polycarbonate			✓	*	✓	*
	PPO and PPO blends				*	*	*
	Vinyls	✓	✓	✓	*	✓	*
	RIM urethane				*	✓	*
	SMCs			✓			*
	Styrene resins			✓	*	*	*
	Polyacrylate (CAL, CAB, CAP)			✓	*	✓	*
	Polyurea				*	✓	✓
	Cellulosics				*	✓	✓
	Polysulfone				✓		*
	Phenolics			✓	*	✓	*
	Laminates			✓	*		*
WOOD	Wood (hard and soft)	*	*	*	✓	✓	✓
	Plywood	*	*	*	✓	✓	✓
	Particle board	*	*	*	✓	✓	✓
OTHER	Brick	*	*	*	*	✓	*
	Concrete	*	*	*	*	✓	*
	Honeycomb	✓	✓	*	*	✓	*
	Ceramics	✓	✓	*	*	✓	✓
	Glass	✓	✓	✓			

* Excellent Choice ✓ Good Choice ○ Requires Metal Prep 90

CONSUMER PACK

Devcon®

CONSUMER PACK 2-PART EPOXY GLUES

2 TON EPOXY

: P/N S-35 (28.4 gr)

Strength	: 2,500 lbs/in ²
Drying Color	: Clear
Waterproof. Temperature to	: 94°C
Handling Time	: 2 hours; Full Cure: 8 hours
Working Time	: 10 minutes
Mix Ratio	: 1:1

Bonds: Metal & Wood, Concrete, Glass & China, Ceramics, Fiberglass, Stones & Gems, Jewelry



5 MINUTE EPOXY

: P/N S-205 (28.4 gr.)

Strength	: 1,500 lbs/in ²
Drying Color	: Clear
Waterproof. Temperature to	: 94°C
Handling Time	: 15 minutes; Full Cure: 1 hour
Working Time	: 5 minutes
Mix Ratio	: 1:1

Bonds: Metal & Wood, Concrete, Glass & China, Ceramics



2 TON EPOXY

: P/N S-30 (56.8 gr.)

Strength	: 2,500 lbs/in ²
Drying Color	: White
Waterproof. Temperature to	: 94°C
Handling Time	: 2 hours; Full Cure : 8 hours
Working Time	: 30 minutes
Mix Ratio	: 1:1

Bonds : Metal & Wood, Concrete, Porcelain & China, Ceramics, Fiberglass, Pearl Decoration



2 PART REPAIR EPOXY (Metal Surface Repair. Can be drilled, taped, sanded & painted)

PLASTIC STEEL EPOXY

: P/N S-5 (56.8 gr.)

Strength	: 2,500 lbs/in ²
Drying Color	: Dark Grey
Waterproof. Temperature to	: 121°C
Handling Time	: 2 hours; Full Cure: 16 hours
Working Time	: 20 minutes
Mix Ratio	: 1:1

Repairs and Fills Gaps in : Copper & Steel, Aluminum, Stainless Steel, Brass & Iron, Pewter



THERMOPROBE



TANK GAUGING

NEW

TP7-D



TP9-A



Recommended Operation per API 7: International Safety Guide for Oil Tankers and Terminals, API 4 and other recommended procedures and standards.

Custody Transfers, Hazardous Location, Intrinsically safe, Inventory, PET, Tank, Pipeline, Barge, Ship, Railcar, Tank Truck, Viscosity, Petroleum, Portable, Digital, Thermometer, Inspector, NIST, Certified, Ex, UL, ATEX, IECEx, TIIS, GOST, Gasoline, Diesel, Asphalt, Molten Sulphur, Petrochemical, Viscous, Caustic, Acid, Chemical, Alkali, Molasses, Syrup, Distilled spirits, Aviation fuel

The **TP7-C** is an intrinsically safe digital gauging thermometer designed for use in hazardous locations. ThermoProbe has designed the TP7-C with reliable RTD sensors based on our previous industry-standard thermometers such as the TP7 and TP8.

SPECIFICATIONS: <http://www.thermoprobe.net/product/tp7-c/>

Certifications

The TP7-C certifications are recognized internationally (IECEx), in Europe (ATEX), Japan (TIIS) and Russia (GOST).



II 2 (1) G Ex ib [ia] IIB T4
DEMKO 11 ATEX 1104891X
IECEx ULD 11.0008X

The **TP9** ergonomic probe storage and stainless construction is well suited for gauging heavy products that are hard to clean such as asphalt. With multiple probe configurations and allowable lengths up to 50 meters (165 ft), the TP9 is well suited to many tank gauging applications.

Certifications

The TP9 certifications are recognized internationally (IECEx), in Europe (ATEX), Japan (TIIS) and Russia (GOST).



II 2 (1) G Ex ib [ia] IIB T4
DEMKO 11 ATEX 1104891X
IECEx ULD 11.0008X

SPECIFICATIONS: <http://www.thermoprobe.net/product/tp9/>

TL1-W Intrinsically Safe Portable Stem Thermometer for Laboratory and Field Reference – Rugged Design. The **TL1-W** is an intrinsically safe digital laboratory thermometer designed for use in hazardous locations. The TL1-W is an improved version of the original ThermoProbe model TL1. The TL1-W is intended to be used anywhere a precision glass stem thermometer or other type thermometer is used.

Certifications

The TL1-A certifications are recognized in Europe (ATEX) and internationally (IECEx).



II 2 G Ex ib IIC T4
DEMKO 11 ATEX CO09993X
IECEx ULD 11.0009X

SPECIFICATIONS: <http://www.thermoprobe.net/product/tl1-w/>

DIGITAL THERMOMETERS



OIL GAUGING



KOLOR KUT-Petroleum and Liquid Product Indicator

Directions for Use: Put a thin film of Kolor Kut on the tape or rod where the level of the water (bottom of tank), alcohols (bottom of tank) or gasoline (upper tank) or liquid (upper tank) is expected. Lower the tape or rod into the tank or drum. Level will appear as a color contrast on the tape or rod. Instantaneous color change in hydrocarbons and acids. Color change in heavy oils will take 10-15 seconds.

KOLOR KUT WATER FINDING PASTE: P/N KK01 3 oz. Tube

Kolor Kut Water Finding Paste **KK01** offers a simple way to check for the presence of water in petroleum fluids such as: gasoline, kerosene, diesel, and heavy fuel oil, by "sticking" the tank (with a measuring stick, rod or bar) with the paste applied to it. The color of the paste changes instantly upon contact with water.

Golden brown color, Turns Bright Red upon contact with Water.

Gauge water level in all petroleum products and hydrocarbons &

Acids (Sulfuric, Nitric, Hydrochloric), Amonia, Soap solutions, Saline and Chloride Solutions.

MSDS: <http://icllabs.com/wp-content/uploads/2015/12/Kolor-Kut-WFP.pdf>

KOLOR KUT GASOLINE FINDING PASTE: P/N KK 02 2.25 oz./jar

Kolor Kut Gasoline Finding Paste **KK02** offers a simple way to check for the presence of hydrocarbon fuels such as: gasoline, kerosene, diesel, and heavy fuel oil, by "sticking" the tank (with a measuring stick, rod or bar) with the paste applied to it. The color of the paste changes instantly upon contact with water.

Light pink color, Turns Red upon contact with Gasoline, Diesel, Naptha,

Kerosene, Gas Oil, Crude Oil, Jet Fuels & other Hydrocarbons

MSDS: <http://icllabs.com/wp-content/uploads/2015/12/Kolor-Kut-GGP.pdf>

KOLOR KUT MODIFIED WATER FINDING PASTE: KKM3 2.5 oz. Tube

Kolor Kut Water Finding Paste **KK01** offers a simple way to check for the presence of water (as little as 6%) in blended and oxygenated fuels such as: Gasohol, E20, Bio-fuels and Bio- diesel where the presence of ethanol is present. KKM3 is used by "sticking" the tank (with a measuring stick, rod or bar) with the paste applied to it. The color of the paste changes instantly upon contact with water.

Dark brown color, Turns Bright Red upon contact with water. Gauge water level

In Methanol and Ethanol (Biofuels). Alcohol solutions with as little as 6% water will appear as a light yellow color. Normal gauging appearance, Dark Red shows the water level and light yellow shows the alcohol/water level. Conforms to Mil-W-83779 standard.

MSDS: <http://icllabs.com/wp-content/uploads/2015/12/Kolor-Kut-Modied-WFP.pdf>

LUFKIN OIL GAUGING & LAYOUT TAPES

NOTE: Gauging Tapes and Plumb Bobs are sold separately

TAPE PART NO.	DESCRIPTION	REPLACEMENT BLADE	PLUMB BOB
CN1290SF/590	1/2" X 25' Atlas Chrome Nubian	OCN1290SF/590	590G Inage 20 oz. Marking " & 1/8"
C1290SF/590	1/2" X 25' Atlas Chrome Clad	OC1291SF/590	590G Inage 20 oz. Marking " & 1/8"
CN1291SF590	1/2" X 33' Atlas Chrome Nubian	OCN1291SF/590	590G Inage 20 oz. Marking " & 1/8"
CN1293SF590	1/2" X 50' Atlas Chrome Nubian	OCN1293SF/590	590G Inage 20 oz. Marking " & 1/8"
CN1293SMEF/590	1/2" X 50' (13mmx 15 m) Atlas Chrome Nubian	OCN1293SMEF/590	590GM Inage Marking in cm
CN1297SMEF/590	1/2" X 100' (13mmx 30 m) Atlas Chrome Nubian	OCN1297SMEF/590	590GM Inage Marking in cm
C2276D	1/4" X 50' Derrick	OC2276D	
C2276ME	1/4" X 100' (6mm x 30m)	OC2276ME	
9312D	3/4" X 12' Mezurall		

• P/N 590 Inage Plumb Bob 1" rd x 6" : No Markings

GARCO PACKING TOOLS



INDIVIDUAL TOOL

SET #	TOOL NUMBERS	STYLE	TIP NUMBERS
"A" SET- 11 PCS. IN PLASTIC BOX	F-1, F.2, P7, P8, P9	FLEX & PICK	C1,C2
"B" SET- 17 PCS. IN PLASTIC BOX	F-1, F.2, F3, P7, P8, P9	FLEX & PICK	C1,C2,C3 W1,W2,W3

GARCO PACKING TOOLS

Complete line of packing removal tools sold as individual tools or sets.

Corkscrew style (W 1-W3) for removing most packing types.

Woodscrew style for removing hardened packing.

Solid Shaft Picks (P7 P9) for removing dry and cracking packing

SETS

TOOL NUMBER	LENGTH	STYLE	REPLACEMENT TIP
F-1	7.5" (19 CM) 5/16" + PACKING	FLEX & CORKSCREW	C1 CORKSCREW W1 WOODSCREW
F-2	11" (28 CM) 7/16" + PACKING	FLEX & CORKSCREW	C2 CORKSCREW W2 WOODSCREW
F-3	14.5" (36.8CM) 1/2" + PACKING	FLEX & CORKSCREW	C2 CORKSCREW W2 WOODSCREW
P-7	10" (25.4 CM) 1/8" + PACKING	PICK	-
P-8	10" (25.4 CM) 3/16" + PACKING	PICK	-
P-9	10" (25.4 CM) 5/16" + PACKING	PICK	-

AECS SUPPLY Co.,Ltd.

COMPANY PROFILE

AECS SUPPLY Co.,Ltd. has been operating in Thailand for more than 25 years. AECS SUPPLY Co.,Ltd. imports, stocks and distributes products from the USA, Europe, the UK and Asia. The main office is located in Nonthaburi Province with delivery, distribution and training throughout Thailand and to several countries making up the newly formed ASEAN Economic Community. The sixteen employees of this company function in sales, customer service, maintenance, distribution and sales support.

MISSION STATEMENT: To Partner with Our Customers and Suppliers to Make Thailand and the ASEAN Economic Community Safer Places to Live and Work.

CORE VALUES:

- Improve Worker Safety
- Improve Worker Performance
- Offer High Quality Products & Services to International Standards Providing Value to Our Customers.
- Perform Our Duties Respectfully, Honestly with Hard Work and Innovation
- Train in the Proper Use, Warranty and Service the Products Sold
- Provide Benefit to Our Customers, Employees, Thai Society and the ASEAN Economic Community.

HAND CLEANER



1111-06

1115-06

1204-21

GOJO Original Formula 1111-06 Cream-style hand cleaner with skin conditioners. Removes heavy grease, tar and oil. Rub on, wipe clean with towel, rinse hands. 4.5 lbs. Canister-6/case

GOJO Original Formula 1115-06 Cream-style hand cleaner with skin conditioners. Removes heavy grease, tar and oil. Rub on, wipe clean with towel, rinse hands. 4.5 lbs. Canister-6/case. Use with dispenser 1204-21

SDS: http://images.salsify.com/image/upload/s--SxoVTiM__--/a1xboy41zlhvwztzfswt.pdf



GOJO Natural Orange Pumice Hand Cleaner with Hand Pump 0955-04 Lotion-style hand cleaner with pumice scrubbing particles. Gently removes heavy grease, tar and oil. Cleans fast. Put on, wipe clean with towel, rinse hands. 1-USG. Canister-4/case

SDS: <http://images.salsify.com/image/upload/s--1pbAJJ4Q--/gwgndbx5zlxktabqwuf.pdf>



0915-06

0905-06

1204-04

GOJO Original Formula 0915-06 Lemon Pumice Cream-style hand cleaner with skin conditioners and pumice scrubbing particles. Removes heavy grease, tar and oil. Rub on, wipe clean with towel, use without water or with water, rinse hands. 4.5 lbs. Canister-6/case

GOJO Original Formula 0905-06 Lemon Cream-style hand cleaner with skin conditioners without pumice scrubbing particles. Removes heavy grease, tar and oil. Rub on, wipe clean with towel, rinse hands. 4.5 lbs. Canister-6/case

HAND ANTIBACTERIAL LOTION



7220-04

7200-01

GOJO 7220-04 Rich Pink Refill High Performance, gentle antibacterial lotion soap. For cleaning lightly soiled hands. 2000ml. Use with PRO TDX Dispenser

SDS: <http://images.salsify.com/image/upload/s--qexq6TZQ--/rx960ulpslrw61lx2hq3.pdf>



5392-02

2720-12

PURRELL 5392-02 Advanced Hand Sanitizer Foam Refill High Performance, gentle antibacterial lotion soap. Kills 99.99% of most common germs. Thick, rich foam. 1200ml. Use with 2702 TFX 1200ML Dispenser

SDS: <http://images.salsify.com/image/upload/s--BCjhbJnM--/xfqadvq9y2iueqfeguqa.pdf>

PURRELL 5362-02 Premium Hand Sanitizer Foam Refill High Performance, gentle antibacterial lotion soap with vitamin E and Aloe. Kills 99.99% of most common germs. Thick, rich foam. 1200ml. Use with 2702 TFX 1200ML Dispenser

ANTI-SEIZE & RUST PREVENT

NEVER-SEEZE ANTI-SEIZE COMPOUNDS



- Protects against rust, corrosion, carbon fusion and seizure at high temp.
- Faster and easier disassembly during repairs and shut down.
- Color: Silver. Pressure Rating: 32,000 (tensile) Max. Temperature Rating: 1,800F (800C). Mariners Choice Temperature Rating: 2,450 F (1,116 C)

NSA-16 Aerosol 16 oz. 12/cs.

NSBT-16 Paste 1 lb. Can (Brush Top) 12/cs

NSBT-8N Nickle Anti-seize Paste (Brush Top) 8 oz.

NMCBT-16 Mariners Choice Paste (Brush Top) 16 oz.

NS-160 Paste 1 lb. Can 12/cs.

NS-168 Paste 8 lb. Can 4/cs.



P/N NMCBT-16 P/N NSBT-8

LIQUID WRENCH SUPER PENETRANTS



LIQUID WRENCH SUPER PENETRANTS

Loosen nuts, bolts, parts quickly with this penetrant

Use on welded joints, refinery pipes, spot-repair of steel structures.

PENETRANT P/N 6030 Aerosol 16 oz.

Loosen rusted bolts and parts by spraying and allowing the compound to seep in and loosen

L1-04 Liquid 4 oz. Bottle

L1-12 Aerosol 12 oz.

L2-12 Aerosol 12 oz. Penetrates, Lubricates, Protects (Use as a replacement for WD-40)

CROWN BRAND COMPOUNDS



COLD GALVANIZING P/N 7007

Aerosol 16 oz.

Zinc spray provides corrosion protection to metal surfaces.



FLUID FILM RUST PROTECTION

Lanolin based rust inhibitor and protection compound for use on all metal surfaces. Locks out and displaces moisture. Lubricates moving parts. Long lasting protection.

AS 11 Aerosol 11 oz.

DNAS Liquid 55 Gallon



P/N NS- 42 B

MOLYSLIP®



MOLYSLIP MBG

COPASLIP-Formulated to not harden or soften under extreme temperature and operating conditions. Very wide operating range from -40°C to +1100°C (-35°F to +2000°F) Prevents metal-to-metal contact to increase reliability and component life. Provides permanent protection against rust and corrosion.

13005 500 gr. Can, 13050 5 kg. Can, 13001 100 gr. Tube, 13004 400 ml Spray Can

ALUMSLIP is an anti-seize assembly compound which is also a highly efficient thread lubricant and protective. ALUMSLIP contains finely divided lamellar particles of aluminum together with micronised talc and graphite, compounded with a non-melt bentone grease base. 11005 500 gr. Can

MOLYSLIP MBG is a bentone grease with molybdenum disulphide. The bentone base gives great stability at high temperatures, resistance to water and acids, and infusibility. It will not soften under heavy working conditions up to its working temperature limit. Moly slip 5976-25 Kg. Pail

LINE CARD

Devcon

Devcon

Metal Repair and Wear Coat
Emergency Repair

Honeywell

Honeywell Firefighting Gloves



HYSAFETY
EURO VI
FIREMAN VI



BSP FIREFIGHTING SUITS

EN Manufactured to NFPA
Eagle I, Eagle II, Century Series
Phenix Tech. Helmets-NFPA



THERMOPROBE- Intrinsically Safe
Thermometers Tank Gauging
Thermometer Stem Thermometer
for Labs and Field Reference



UVEX-Lens

Cleaning Supplies



EYESALINE
Eyewash



BOUTON - Lens Cleaning
Supplies



HARVIK- Firefighting

Boots EN & NFPA



SICOR- Firefighting
Helmets-EN



PGI- Firefighting
Hoods-NFPA



KOLOR KUT

Water Finding Paste-KK01&KKM3
Gas Finding Paste- KK02



MOLYSLIP

Anti-Seize Lubricants Copaslip
High Temp



NEVER-SEEZ NEVER-SEEZE
Anti-Seize Lubricants



DRAEGER

SCBA- PSS 3000/5000

Respirators, Gas Detectors

Chemical Protection Suits

KIDDE



Battery Operated Smoke Detector
HSG HOME SAFEGURD
25-S Detector Tester to NFPA



TEMPEST- PPV BLOWERS

DD-Series- Direct drive

BD-Series- Belt Drive

EB- Electrical and Hazardous Area

FIREFIGHTING HOSES



ARMTEX



BLINDEX



TITAN



MORSE

Industrial Bandsaws

GARCO

Packing Tools

GOJO

Industrial Hand Cleaners



RESCUE SYSTEMS

AMKUS - Hydraulic Rescue Tools



PARATECH- Air Lifting Bags
Rescue Tools, Rescue Struts



VIPER- Firefighting Nozzles

Viper SG3012/SG7515- Adjustable

Rylstatic- New Nozzle Technology

BD3012/BD7515- Adjustable

MSA

MSA- Safety Helmets and Wear



Nemesis- Eye Protection

HAZARDOUS AREA FLASHLIGHTS



BRIGHTSTAR- UL DIV1

Lights and Lantern



PELICAN- FM Approved

Lights and Headlamps



MAGLITE- Aluminum Body

DELTA FIRE

DELTA FIRE Foam Equipment

Foam Branch HV225/450

Foam Eductors Z225/450

Mobile Foam DF130

AECS SUPPLY Co.,Ltd.



Value Added Services

CONSOLIDATED SHIPPING BY
AIR, SEA, and LAND TRANSPORT

PROMPT QUOTES, VALUE PRICING
ON-TIME DELIVERY



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