

SALT REMOVAL TECHNIQUES BEFORE APPLYING DEVCON EPOXIES



Note: For metals exposed to sea water or other salt solution, grit-blast and high-pressure-water-blast the area, then leave overnight to allow any salts in the metal to “sweat” to the surface. Repeat blasting to “sweat out” all soluble salts. Perform chloride contamination or Bezel test to determine soluble salt content (should be no more than 40ppm). ALLOY METALS may have less salt penetration. CARBON STEELS, CAST IRON, CAST METALS may have higher salt concentration due to porous surface and the presence of rust and corrosion.

STAP 1- Pressure Wash All Surfaces to Remove Surface Dirt, Grease, Salt. Allow to Dry and Then Measure the Amount of Salt Present on the Metal.

Impeller (Bronze Monel (B/M))
35 S/cm (24.56ppm)



Pump Cover- Cast B/M
76 S/cm (53.34 ppm)



Pump Body-Cast B/M
144 S/cm (101.06 ppm)



STEP 2- Power Wire Brush or Grit Blast to Remove Salt, Corrosion, Rust. Clean Surface with Devcon 300 Allow the Salt to Sweat One (1) Day. Measure the Amount of Salt.

Impeller (Bronze Monel (B/M))
30 S/cm (21.05 ppm)

Pump Cover- Cast B/M
35 S/cm (24.56 ppm)

Pump Body-Cast B/M
19 S/cm (13.33 ppm)



STEP 3- Boil the Parts in Water for One (1) Hour. Clean Surface with Devcon 300 Allow the Salt to Sweat One (1) Day. Measure the Amount of Salt.

Impeller (Bronze Monel (B/M))
24 S/cm (16.84 ppm)

Pump Cover- Cast B/M
18 S/cm (12.63 ppm)

Pump Body-Cast B/M
Salt Passed-Step 2



CONCLUSION: The Proper Technique for Salt Removal Below an acceptable level of US Navy Standard of <30 S/cm requires a three (3) step process. ①Water Pressure Blast, ②Power Brushing or Grit Blasting + cleaning with Devcon Cleaner 300, ③Boiling the Parts Followed by cleaning with Devcon Cleaner 300.