Coating Material Compatibility Guide

✓ Successful Coating C Contact SilcoTek for Clarification X Not Successful Coating

Material Types	Silco- (SilcoNert®, SilcoKlean®, SilcoGuard®)	Silcolloy®	Dur- (Dursan® & Dursox®)	Notak®	Siltride®
6% Moly Alloys	√	√	√	√	√
AlNiCo8	√	X	X	√	√
Other ALNiCo Alloys	C	C	C	C	C
Aluminum ≥ 3% Magnesium (Mg)	X	X	X	X	X
Aluminum ≥ 0.4% Lead (Pb)	X	X	X	X	X
Aluminum ≥ 0.4% Bismuth (Bi)	X	X	X	X	X
Aluminum alloys not listed above	√	√	√	√	√
Brass	X	X	X	√	X
Bronze	X	X	X	X	X
Carbon	√	√	√	√	√
Carbon and Tool Steel (Not for corrosion)	C	C	C	C	C
Ceramics	√	√	√	√	√
Copper and copper alloys	X	X	X	C	C
Elgiloy® (Possible undesired hardening)	C	C	C	C	C
Fecralloy®	√	√	√	√	√
Glass	√	√	√	√	√
Gold	C	C	C	C	C
Hastelloy®	√	√	√	√	√
Inconel®	√	√	√	√	√
Invar	√	√	√	√	√
Lead and Lead Alloys	X	X	X	X	X
Manganese	√	√	√	√	√
Monel®	X	X	X	C	√
Nickel and nickel plating	X	X	X	√	X
Plastics and Fluoropolymers	X	X	X	X	X
Platinum	√	√	√	√	√
Silver	C	C	C	C	C
Stainless Steel	√	√	√	√	√
Super Duplex (Possible embrittlement)	C	C	C	C	C
Tantalum	√	√	√	√	√
Titanium	√	√	√	√	√
Tungsten and Tungsten Alloys (Possible embrittlement)	C	C	C	√	C
Zinc	X	X	X	X	X
Surface Finish					
Electropolished	√	√	√	√	√
Passivated	√	√	√	√	√
Hardened	√	√	√	√	√
Polished	√	√	√	√	√
Laser etched/engraved	√	√	√	√	√
Galvanized	X	X	X	X	X
Other coated or plated	C	C	C	C	C
Weld or Braze					
Vacuum-nickel Brazing	√	√	√	√	√
TIG/MIG Weld	√	√	√	√	√
Silver Solder (Must withstand 450°C)	C	C	C	C	C
Bronze Solder	X	X	X	X	X
Common Lead/Tin Solder	X	X	X	X	X