



Coatings

MAGNETIC SOLUTIONS

Magnet (Typically NdFeB) Coatings



Metallic

Nickel – Copper - Nickel

Zinc

Aluminum Ion Vapor Deposition (IVD)
with Chromate Conversion

Everlube Vaccoat 10047

Organic

Epoxy (E-coat)

Powder Coat

Everslik 1221/1225 – Phenolic Resin

Parylene (C / D / HT)

Everlube 9800

Vaccoat 20011

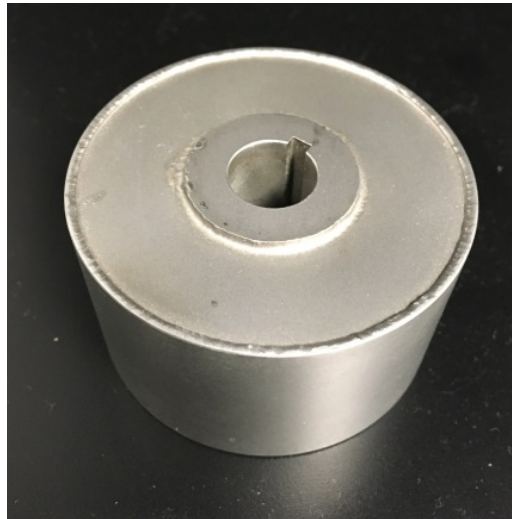
Coatings Summary



Name	Thickness range	Maximum Temperature	Salt Fog Corrosion resistance
Nickel – Copper - Nickel	25 microns max	200°C	>500 hours
Zinc	25 microns max	200°C	>96 hours
Aluminum IVD with chromate conversion	7.5 to 25 microns	500°C	>500 hours
Everlube Vaccoat 10047	10 to 30 microns	180°C	>1000 hours
Epoxy (E-coat)	15 to 60 microns	130°C	>240 hours
Powder Coat	50 to 125 microns	130°C	>500 hours
Everslik 1221/1225 – Phenolic Resin	8 to 20 microns	150°C	<1000 hours
Parylene (C / D / HT)	7 to 50 microns	400°C	>100 hours
Everlube 9800	25 to 50 microns	200°C	>1300 hours
Vaccoat 20011	10 to 30 microns	200°C	>500 hours

Solution: Complete Encapsulation

- Use weldable materials
 - 304L Stainless steel
 - Inconel



Coatings at Various Temperatures



-250°C	-200°C	-150°C	-100°C	-50°C	Coating	+50°C	+100°C	+150°C	+200°C	+250°C	+300°C	+350°C	+400°C
					Nickel-Copper-Nickel								
					Zinc								
					Aluminum IVD								
					Al IVD w/Chromate Conversion								
					Everlube Vaccoat 10047								
					Vaccoat 20011								
					Epoxy (E-coat)								
					Powder Coat								
					Everslik 1221/1225 – Phenolic Resin								
					Parylene C								
					Parylene D								
					Parylene Nova HT								



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