

**MATERION****DESIGN GUIDE**

COATINGS FOR AlBeMet® AM 162

The following coatings have been applied and tested in a Salt Fog Chamber with a 5% Salt Solution at 95°F (March 2000)

COATING	SPECIFICATION	AFTER 500 HOURS	BEING QUALIFIED
1. Conversion Coat	MIL-C-5541E Class 3	AOTCO, AXSYS Technologies (General Dynamics), Epner	
2. Hard Black Anodize w/Nickel Acetate Seal	MIL-A-8625F	Type III, Class I	AlumiplateI, MAFCO
		Type III, Class 2	
3. Teflon Impregnated Anodize w/Duplex Seal	MIL-A-63576A Type I		
4. Teflon Impregnated Anodize	MIL-A-63576A Type III		
5. Electroless Nickel	MIL-C-26074E Class 4 Grade A	AOTCO, Epner, Specific Plating, AXSYS Technologies (General Dynamics)	
6. Electroless Nickel w/Cad Overcoat	MIL-C-26074E Class 4 QQ-P-416 Type II, Class 2	AOTCO, California Tech. Plating ³ , Epner, Fountain Plating ² , Prime Plating ³ , Specific Plating ³	
7. Epoxy Paint	BR-127	Materion Electrofusion, Fountain Plating ³ , AXSYS Technologies (General Dynamics)	
8a. Chromic Anodize Non-Sealed	Meets MIL-A08625F Type I or IB, Class I	AlumiplateI, AOTCO, AXSYS Technologies (General Dynamics)	MAFCO
8b. Chromic Anodize Nickel Acetate Seal	Alternative (variation) to above	AOTCO	
8c. Sulfuric Acid Anodize	MIL-A08625F Type II	Class I	MAFCO
		Class 2	
9. Electrolytic Nickel (Sulfamate Bath)	MIL-P-27418 (QQ-N-290A)		AOTCO
10. Electrolytic Nickel w/Gold Overcoat	MIL-P-27418 (QQ-N-290A)		AOTCO
11. Kerenite 3000		Poeton	

1. AlumiplateI first, then anodized.
2. Qualified as a substitute black coating called F-Kote II.
3. Passed MIL spec salt fog test only.

Handling aluminum-beryllium in solid form poses no special health risk. Like many industrial materials, beryllium-containing materials may pose a health risk if recommended safe handling practices are not followed. Inhalation of airborne beryllium may cause a serious lung disorder in susceptible individuals. The Occupational Safety and Health Administration (OSHA) has set mandatory limits on occupational respiratory exposures. Read and follow the guidance in the Safety Data Sheet (SDS) before working with this material. For additional information on safe handling practices or technical data on beryllium, please contact Materion Product Steward at 216-383-4040.

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