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Re: Impreglon standard anodising and hard anodising

Test result per MIL-A-8625F

Anodising and Hard anodising

Anodising is an electrolytic passivation process used to increase the thickness of the natural oxide layer on the surface of metal parts.

Anodising

Sulphuric anodising is an electrolytic treatment for aluminium that produces a coating of aluminium oxide. This coating exhibits excellent corrosion resistance and can be dyed in a variety of colours.

Hard anodising

Standard anodic films are generally limited to a maximum of 30 microns in thickness. Hard anodising is very similar to sulphuric anodising but produces a thicker oxide layer and therefore increased corrosion resistance and increased wear resistance compared to standard sulphuric anodising. These thicker anodic coatings have exceptional hardness characteristics and are very suitable for tougher engineering applications.

Standards:

Impreglon anodising and hard anodising meet Quality Standard MIL-A-8625F, type II and type III.

MIL-A-8625F Anodic coatings for aluminium and aluminium alloys.

Type II: Sulfuric acid anodizing, conventional coatings produced from sulfuric acid bath

Type III: Hard Anodic Coatings

MIL-SPEC is a United States military standard to ensure products meet certain requirements, commonality, reliability, total cost of ownership, compatibility with logistics systems, and similar defence-related objectives. MIL-SPEC standards are also used by other non-defence government organizations, technical organizations, and industry.

Test results per MIL-A-8625F

Date	Alloy	Sealing Dye-spot test	Coating Thickness	Coating weight	Corrosion resistance	Abrasion resistance
		ISO 2143:2010	ASTM B 244	ASTM B 137	ASTM B 117	FED-STD-141
			um	Type II > 1000 mg/ft2 Type III > 4320 mg/ft2	> 336 hours	mg/dm2/10000 cycles
7/12/2017	6061	pass				
11/12/2017	6061			8415		
12/12/2017	6061 (hard)	pass	45.4	7716		
	6061	pass	41.6	1745		
15/01/2018	6061 (hard)	pass			pass	2.8 pass
	6061				pass	
8/02/2018	6061	pass	42.8	8135.08	pass	
	6061 (hard)	pass	45.6	10414.99	pass	

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Research and Development

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