

Chrome-Free Passivation for Aluminium

Ecofilm™ is an environmentally safe, chrome-free passivation treatment designed specifically for aluminium alloys. It applies a highly corrosion-resistant conversion coating ideally suited to Antenna system and associated components providing Ecofilm™ corrosion resistant barrier.

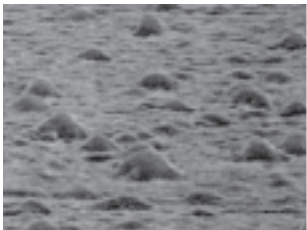
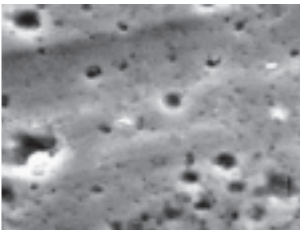
Ecofilm™ is an innovative process that offers extremely high resistance to corrosion, tested to 1000 hours on many aluminum alloys. Unlike traditional Chromate treatments that require up to 24 hours to cure to a hard film, Ecofilm™ provides a hard amorphous crystalline coating as formed.

In comparative corrosion tests on the most common aluminium alloys, Ecofilm™ significantly outperforms chromate coatings, passing over 1000 hours neutral salt spray on all but the highest copper containing alloys. The electrical conductivity of Ecofilm™ is comparable with conventional chromate coatings, so it is the perfect pretreatment system for most electrical grounding applications such as antenna systems and associated components

Key Features

- Bare corrosion resistance without painting
- Excellent adhesion to paints, sealants and adhesives
- Environmentally compliant—contains no hexavalent or trivalent chromium compounds

Corrosion Performance							
Aluminium Alloy	5052	6022	3003	1100	6111	6061	A356
Salt Spray Hours							
Ecofilm™	1000+	1000+	1000+	1000+	1000+	1000+	576
Chromate	1000+	1000+	168	432	432	648	1000+

Ecofilm™	Chromate
< 1.0 mOhms/in2	< 5.0 mOhms/in2
Passes MIL-C-81706	Passes MIL-C-81706
	
Ecofilm™ treated aluminum	Chromate treated aluminum

