

**Chomerics Saltwater Spray Corrosion Caused by Conductive Elastomers Test  
CHO-TM100**

7/28/2017

Product	Specimen#	Aluminum Alloy Washer weight, mg				Aluminum Alloy Washer Thickness, inch			Conductive Washer Thickness, cm			Conductive Washer VR at 105.8 lbf, Ω-cm		
		W1, g	W2, g	WL %	WL, mg	W1	W2	WL%	W1	W2	% change	W1	W2	VR change
Passivated Silver Aluminum	1	5.2330	5.2235	0.18	-9.50	0.0550	0.0550	0.00	0.164	0.163	-0.73	0.169	1.087	0.918
SSP2529	2	5.2180	5.2138	0.08	-4.20	0.0540	0.0540	0.00	0.164	0.163	-0.73	0.115	0.495	0.380
					0.00									0.000
					0.00									0.000
					0.00									0.000
					0.00									0.000
					0.00									0.000
					0.00									0.000

Mean, Ω-cm: 0.791

Mean VR Change, Ω-cm: 0.649

Test Order	Performed By	Date and Times
• Aluminum Coupons(grade 6061-T6) are conversion coated Chem Film (Mil-C-5541E Class 3)	Protocase	na
• Fixtures tightened to 8 in-lb force via. NTS-25 torque driver.	SSP	7/28/2017
• Saltwater Spray Fog (ASTM B117) Exposer Time: 168 hour @ 95°F	ARDL	sent 7/28/17 returned 8/17/2017
• Disassemble Fixtures and keep the specimen together for Identification	SSP	8/21/2017
• Brush the washers with a nylon Brush removing any loose adhered salt.	SSP	"
• Submerge the washers in the nitric acid for 15 minutes	SSP	"
• Removed from the nitric acid and rinsed in water.	SSP	"
- Blot dry and relabel	SSP	"
• Bake the washers in a oven for 2 hours at 100°C	SSP	8/21/2017 7:45am 9:45am
• Specimens held in a desiccator.	SSP	8/21/2017 9:46 AM 8/22/2017 7:45am
• Re-weigh and record the thickness of the washers	SSP	8/21/2017 1:30pm
• Wipe down the EMI specimen with a ethanol soaked rag and allow them to dry before testing.	SSP	8/21/2017
• Test the EMI specimen for the V.R. change. 30 sec. reading	SSP	8/22/2017 7:45am

P= RA  
L

A= 6.280 cm<sup>2</sup>  
L= thickness, cm  
R= reading, Ω