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Evaluating VpCI-126 Film for Customer

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For: Customer

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Test conducted by:

Project #: 13-202-1125.bis

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ANVIRONMENTAL BOOLESTERN REGISTIVE **Date:** November 12, 2013

Background:	Customer sent machined parts to Cortec for evaluation. They would like Cortec to evaluate the effectiveness of VpCI-126 film on these parts.		
Sample Received:	Two cylindrical machined steel parts		
Method:	ASTM D-1735 Water Fog Cabinet		
Materials:	Two cylindrical machined steel parts VpCI-126 Blue Film (Lot #310220) Non-VCI Polyethylene (PE) film Laboratory grade methanol		
Procedure:	 The following procedure was used: Prior to testing, two machined parts were visually inspected and then cleaned with methanol. After cleaning, one part was packed in VpCI-126 blue film zip top bag, the other in a non-VCI PE film zip top bag. After packing, both parts were allowed to condition overnight. Both parts were then placed in ASTM D-1735 Water Fog cabinet. Both parts were visually inspected periodically. After 504 hours, both parts were removed from ASTM D-1735 Water Fog cabinet. Both parts were unwrapped, visually inspected, and photographed. 		
Results:	The following results were found:		

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Packaging Used	Time to Corrosion (Hours)	
Non-VCI Polyethylene	24	
VpCI-126	504	

Photos:

Photos below.



Figure 1: Non-VCI PE packed part, after 504 hours in ASTM D-1735 testing.



Figure 2: VpCI-126 packed part, after 504 hours in ASTM D-1735 testing.

Interpretations:

After 504 hours in ASTM D-1735 water fog testing, VpCI-126 provided excellent corrosion protection, when compared to a non-VCI polyethylene film.