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Evaluating Aicello Boselon 205 film

Background:	Boris Miksic submitted Aicello I	Boselon 205 film f	for a corrosion in	hibition evaluation.
Purpose:	Evaluate corrosion inhibition and film.	d mechanical stren	igth offered by A	icello Boselon 205
Method:	Razor Blade Test VIA Test SO ₂ Test Nitrite Test Tensile Strength @ Break, AST % Elongation @ Break, ASTM I Tensile Strength, ASTM D 882-9 Tear Test, ASTM D 1922-94A, Impact Puncture, ASTM D 3420	M D882, D 882A, 91, -95-B		
Materials:	Razor Blade Test kit VIA Test kit SO ₂ Test kit EM Quant Nitrite/Nitrate Test Strips (Lot # OC130397, Exp Oct 04) Tensile Strength @ Break, ASTM D882, Test kit % Elongation @ Break, ASTM D 882A, Test kit Tensile Strength, ASTM D 882-91, Test kit Tear Test, ASTM D 1922-94A, Test kit Impact Puncture, ASTM D 3420-95-B Test kit			
Procedure:	The above tests were performed	according to stand	lard procedures.	
Results:	Razor E	Blade Test		
	Material	Panel #1	Panel #2	Panel #3
Aicello Boselon 205 film		Fail	Fail	Fail
Cortec VpCI-126 Blue film*		Pass	Pass	Pass
Control		Fail	Fail	Fail
	VIA	A Test		J
	Material	Plug #1	Plug #2	Plug #3



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Project #03-039-1125

Aicello Boselon 205 film

Cortec VpCI-126 Blue film*

Control

*Typical results for Cortec VpCI-126 Blue film

Grade 1

Grade 3

Fail

Grade 2

Grade 3

Fail

Grade 1

Grade 3

Fail

Nitrite Test: Aicello Boselon 205 film is a nitrite based film.

Mechanical strength Testing			
	Cortec VpCI-126 Blue film	Aicello Boselon 205 film	
	(2 mil)	(2 mil)	
Tensile Strength @ Break, ASTM D882, (lbs)	6.56/6.87	4.30/4.07	
% Elongation @ Break, ASTM D 882A, (%)	14.38/16.07	6.67/10.71	
Tensile Strength, ASTM D 882-91, (lbs)	6.56/6.88	4.98/4.60	
Tear Test, ASTM D 1922-94A, (GF)	656.00/885.33	592.00/448.00	
Impact Puncture, ASTM D 3420-95-B (J)	0.72	0.98	

Mechanical	strength	Testing
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Note: Machine Direction/Cross Direction

Conclusion: Aicello Boselon 205 film does not provide sufficient corrosion protection. Aicello Boselon 205 film, has a lower tensile strength @break, % elongation @ break, Tensile Strength and Tear test values compared to Cortec VpCI-126 Blue film.

VIA Test Grades (Grade 2 or 3 are passing)

		Grade 0
Grade 0:	Blind test No corrosion inhibiting effect	
Grade 1:	Blind test Minute corrosion inhibiting effect	Grade 1
Grade 2:	Blind test Medium corrosion inhibiting effect	$\bigcirc \bigcirc \bigcirc \bigcirc$
Grade 3:	Blind test Good corrosion inhibiting effect	Grade 2
		Grade 3

SO₂ Grades (Grade 3 and 4 are passing):

Grade 0- Extensive corrosion covering 25% or more of panel surface

Grade 1- Moderate corrosion covering 10-25% of panel surface

Grade 2- Slight corrosion covering 5-10% of panel surface

Grade 3- Very slight corrosion covering 0-5% of panel surface

Grade 4- No visible corrosion on panel surface

Project #: 03-039-1125

Estimated Cost of Project: 3 hours

То:	Boris Miksic
From:	Bob Berg
Date:	4/1/03
сс:	Anna Vignetti Art Ahlbrecht Rita Kharshan Cliff Cracauer Vanessa Schultz Bob Boyle

Project #03-039-1125



03/03/10 15:44 QA X: B scans, 4.0cm-1 3 mil, aicello boselon 205, 03-039-1125