

- 4119 White Bear Parkway, St. Paul, MN 55110 USA
- Phone (651) 429-1100, Fax (651) 429-1122
- Toll Free (800) 4-CORTEC, E-mail info@cortecvci.com
- Internet http://www.cortecvci.com

Evaluating Super VP 90 corrosion inhibiting pouch

Background:	Brian Coles/Lake Chemicals submitted "Super VP90" corrosion inhibiting pouch to Cortec Corporation. The product is produced by Napier, London. The product is advertised as a vapor phase corrosion inhibitor.
Purpose:	Evaluate the corrosion inhibition performance of submitted film
Method:	VIA Test Gas Chromatography/Mass Spectrometry Melting point
Materials:	VIA Test Kit Melting point apparatus Hewlett Packard 5890A Gas Chromatograph Napier "Super VP 90" vapor phase corrosion inhibiting pouch Cor-Pak 1-MUL Pouch
Procedure:	The above tests were performed according to standard procedures for each.
Results:	

Melting point is 177-185°C (for melted part)

VIA IUSI	VIA	Test
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$1 \operatorname{ance} \pi 1$	Panel #2	Panel #3
Grade 0	Grade 0	Grade 1
Fail	Fail	Fail
Grade 3	Grade 3	Grade 3
	Grade 0 Fail Grade 3	Grade 0Grade 0FailFailGrade 3Grade 3

* Typical results for Cortec Cor-Pak 1-MUL pouch Photos and graphs enclosed

Conclusion: Napier "Super VP 90" vapor phase corrosion inhibiting pouch fails to provide vapor phase corrosion inhibition. Based on Melting point and GC analysis, Napier "Super VP 90" vapor phase corrosion inhibiting pouch appears to contain cyclohexylammonium benzoate and insoluble, high melting point matter which could be identified as a desiccant.

Project #: 04-163-1125

Estimated Cost of Project: 3 hours

To: Brian Coles/Lake Chemicals

From: Bob Berg/Bruce Bear

Date: 11/05/04





Boris Miksic Anna Vignetti Art Ahlbrecht Rita Kharshan Cliff Cracauer Bob Boyle Cindy Johnson Dario Dell'Orto

cc:

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	$\bigcirc \bigcirc \bigcirc$
Grade 3:	Blind test	Grade 2
	Good correston ministring effect	Grade 3



Plug #1



Plug #2



Plug #3



Control

