

IMO A.653(16) TESTING
FOR
SUPERIOR PRODUCTS INTERNATIONAL II, INC.
ON
HOT PIPE COATING
VTEC #100-1944-16
TESTED: MAY 12, 2004



VTEC Laboratories Inc.

May 13, 2004

Client: Superior Products International II, Inc.
10835 W. 78th Street
Shawnee Mission, KS 66214

Attention: Mr. J.E. Pritchett

Scope: This report contains the reference to the test method, preparation and conditioning of sample, observation of material, test and post test observation data test results.

Test Method: This test was conducted in accordance with IMO A.653(16) specification.

This standard should be used to measure and describe the properties of materials, products, or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products, or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use.

Disclaimer: This is a factual report of the results obtained from the laboratory test of sample products. The results may be applied only to the products tested and should not be constructed as applicable to other similar products of the manufacture. The report is not a recommendation or a disapprobation by VTEC Laboratories, Inc. of the material tested. While this report may be used for obtaining product acceptance, it may not be used in advertising.

Notice: VTEC Laboratories Inc. will not be liable for any loss or damage resulting from the use of the data in this report in excess of the invoice. This report pertains to the sample tested only. This report shall not be interpreted to be a warranty, either expressed or implied as to the suitability or fitness of said sample for such uses or applications. As the party contracting for the report may apply such sample

**SUPERIOR PRODUCTS INTERNATIONAL II, INC.
IMO A.653(16) FLAME SPREAD DATA**

PRODUCT: Hot Pipe Coating (batch 022304) applied at a thickness of 115 mils wet (95 mils dry) to 1" gage steel panel.

SOURCE: SUPERIOR PRODUCTS INTERNATIONAL II, INC. **VTEC #** 100-1944-16
DIMENSIONS: 156 mm X 800 mm **COLOR:** White
SPECIMEN **AL FOIL ?** Yes
THICKNESS: 95 mils dry Hot Pipe Coating on 11 Ga. Steel plate. **DATE:** 3/12/2004
ORIENTATION: Vertical
EXPOSED SURFACE: Coated Surface

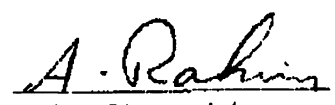
OBSERVATIONS: There was no unusual behavior or dripping during the test

TIME TO:	150 mm	200 mm.	250 mm.	300 mm.	350 mm.	400 mm.
Sample #	sec.	sec.	sec.	sec.	sec.	sec.
1	-	-	-	-	-	-
2	-	-	-	-	-	-
3	-	-	-	-	-	-

	SAMPLE 1	SAMPLE 2	SAMPLE 3	AVERAGE
Nonimpinging Pilot flame used?	YES	YES	YES	
Test Duration (min.)	10.00	10.00	10.00	10.00
Heat of Ignition (MJ/m ²)	N/A	N/A	N/A	N/A
Heat of Sustained Burning at (MJ/m ²):				
150 mm	N/A	N/A	N/A	N/A
200 mm	N/A	N/A	N/A	N/A
250 mm	N/A	N/A	N/A	N/A
300 mm	N/A	N/A	N/A	N/A
350 mm	N/A	N/A	N/A	N/A
400 mm	N/A	N/A	N/A	N/A
Sample Average:	N/A	N/A	N/A	N/A
Time of Extinguishment (min)	N/A	N/A	N/A	N/A
Distance burned (mm)	N/A	N/A	N/A	N/A
Critical Flux at Extinguishment (kW/m ²):	N/A	N/A	N/A	N/A
Total Heat Release (MJ)	0.22	0.46	0.40	0.36
Peak Heat Release (kW)	0.65	1.05	0.82	0.84
Heat for Sustained Burning (MJ/m ²)	N/A	N/A	N/A	N/A

CONCLUSIONS: The specimens provided met all requirements per IMO Resolution A.653(16) for bulkhead, wall and ceiling linings.


 Neil Schultz
 Executive Director


 Amirudin Rahim
 Technical Director