

TEMPERATURE DIFFERENCE TESTING  
FOR  
SUPERIOR PRODUCTS INTERNATIONAL  
ON  
HSC 300 COATING BATCH #010306  
ON 0.116" CARBON STEEL  
VTEC #100-2327  
TESTED: FEBRUARY 15, 2006



# VTEC Laboratories Inc.

March 2, 2006

**Client:** Superior Products International  
10835 West 78<sup>th</sup> street  
Shawnee, Kansas 66214

**Attn:** J.E. Pritchett

**Subject:** Determine the Temperature Difference of Various  
Thickness of HSC 300 Batch #010306 on Steel Substrate  
Using a Hot Plate.

**Procedure:**

VTEC Laboratories Inc. prepared specimens using HSC 300 Batch 010306 provided by Superior Products International II, Inc. The HSC 300 Batch 010306 was applied at various thicknesses to 11 gauge steel substrates. The prepared specimens were tested for temperature difference using a hot plate.

The specimens were placed on the hot plate with the steel side exposed to the hot plate. A thermocouple was placed between the hot plate and the steel to measure hot face temperature. Another thermocouple was placed on the unexposed side of the HSC 300 Batch 010306 to measure cold face temperature. This thermocouple was kept in place using an aluminum tape, which also covered the tip to produce more accurate cold face temperature.

The temperature of the hot plate was adjusted to various temperatures and the hot and cold face temperatures were recorded when a steady state was reached. The edges of the specimens were insulated with 1" thick by 2" wide ceramic insulation blanket to prevent lateral heat loss.

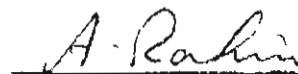
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**RESULTS:****PRODUCT: HSC 300 Batch 010306 on 11 Gauge Steel 4"x4"**

HOT PIPE COATING BATCH 062303 Thickness (mils.)	Nominal Hot Plate Temperature (Deg. F):				
	100	200	300	400	500
	Cold Face Temperature (Deg. F)				
25	91	167	247	318	387
50	78	149	212	288	347
75	88	152	209	272	335
100	88	150	194	238	303
125	88	146	181	235	296
150	86	139	188	238	299

**OBSERVATIONS:**

The coating softened at the higher temperatures.


Neil Schultz  
Executive Director

Amirudin Rahim  
Technical Director

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