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Transmittal #: PR23741-51851
Date: June 12, 2003

TRANSMITTAL OF TEST RESULTS

EQUIPMENT USED: Unitherm™ Model:

1054	1091	1101	1121	1161	special	Thermal Expansion
QL-10	QL-11	2021	2101	2031	special	<u>Thermal Conductivity</u>
FL-3000	FL-5000					Thermal Diffusivity
FL-3000	FL-5000					Specific Heat Capacity

CALIBRATION:

Using: NIST traceable NiST certified in-house working reference

DATA:

Listed below for two thermal conductivity tests performed on two samples.

Samples' designations: 410 Stainless Steel and Neukote Black.

Sample	Temperature (°C)	Thermal Conductivity (W/(m*K))
410 Stainless Steel	36.2	29.90
Neukote Black	36.1	0.93

COMMENTS:

The tests were performed according to the specifications of ASTM E1530 Test Method. A separate test was performed on the blank stainless steel sample, which was considered to be identical to the stainless steel substrate with the coating applied.

The thermal resistance of the film was calculated as a difference between the thermal resistances of coated and uncoated sample. The thermal conductivity value was derived from the calculated thermal resistance result and the provided thickness of the coating (0.0035 in).

Submitted by:



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