IMR TEST LABS
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February 5, 2008

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TEST REPORT

IMR Report Number 200711718

PO Number
Credit Card

Date Received
December 13, 2007

Material ID
Anticorrosive Gel RG-2400-LT

SUMMARY

One sample of an anticorrosive gel was received for a determination of its effect on coefficient of friction.

The results are on the following page(s).

ACCREDITED 1140.01 + 1140.02

Accredited Nadcap Materials Testing Laboratory

Reviewed by
Michael Bimbo
Lead Chemist - Nonmetallics

Reviewed by
William DeLaurier, Director
Materials & Product Evaluation

COEFFICIENT OF FRICTION EVALUATION

The changes in coefficient of friction values were determined for untreated steel panels, and panels which had been coated with a thin layer of the supplied anticorrosive gel material. The test setup was per a modified ASTM D1894-06.

The static and dynamic coefficients of friction were determined for an untreated cold-rolled steel panel pulled over a C1018 low carbon steel substrate pre-ground to a rating between AA63 and AA32 (between Ra 1.6 micron and Ra 0.8 micron). The coefficients were determined prior to the application of the anticorrosive gel and then again after a thin layer of the gel had been applied to the substrate panel.

Data are tabulated below.

Uncoated Panel Trials	Static Coefficient of Friction (μ_S)	Dynamic Coefficient of Friction (μ_D)
Uncoated 1	0.231	0.292
Uncoated 2	0.267	0.239
Uncoated 3	0.237	0.209
Average	0.245	0.247
St. Dev.	0.020	0.042

Anticorrosive Gel Trials	Static Coefficient of Friction (μ_S)	Dynamic Coefficient of Friction (μ_D)
RG-2400-LT 1	0.352	0.333
RG-2400-LT 2	0.366	0.330
RG-2400-LT 3	0.466	0.330
Average	0.395	0.331
St. Dev.	0.062	0.002

	Static Coefficient of Friction (μ_S)	Dynamic Coefficient of Friction (μ_D)
Change	+0.150	+0.084