



राष्ट्रीय
धातुकर्म
प्रयोगशाला

National
Metallurgical
Laboratory



ISO-9001 : 2000

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)
जमशेदपुर – 831 007, भारत

(Council of Scientific & Industrial Research)
Jamshedpur - 831 007, INDIA

TEST REPORT

TR Ref. No. : NML/CSE/AKM/TR/03/2014-15

Date of TR: 24.11.2014

Customer Name: M/s Automotive Solutions
Address: Dev Praksh Shashtri Marg,
WZ-75 A, (Near Pusa Area)
TODAPUR, NEW DELHI-110012
Phone: 09350042380
Contact Person: Mr. Sachiv Dhawan

SAMPLE INFORMATION

Sample Description : Clear Guard Brass Coating Lacquer
Quantity Submitted : 200 ml approx.
Date of Receipt : 18.11.2014
Colour : Light Honey
Reference No. : Letter dated 13.11.2014
Type of Test Required : Quality of Lacquer, Lead and Cadmium Leaching Test

TEST RESULT

Result : Type of Test Conducted - Lacquer Quality Test

Sample	Type of Test Conducted	Ref. to Test Method/Standard	Result	
			Result	Comment
Clear Guard Brass Coating Lacquer	Gloss	Glossmeter	65-70 @20 ⁰	SATISFACTORY
	Acid Resistance	IS 101	Pass	SATISFACTORY
	Alkali Resistance	IS 101	Pass	SATISFACTORY
	Adhesion	Cross Hatch	Pass	SATISFACTORY
	Salt Spray (100 Hours)	ASTM B 117	Pass	SATISFACTORY
	Thickness	Thickness Gauge	4-5 µm	SATISFACTORY
	Scratch Test	Pencil test	2H	SATISFACTORY

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Phone : +91-657-2345000, 2345001 (O), Fax : +91-657-2345213, 2345153, e-mail : director@nmlindia.org

Working Days : Monday to Friday (09.15 am – 05.45 pm)

Website : www.nmlindia.org

Asst. Dir. NML
24.11.2014



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Result : Type of Test Conducted – Lead and Cadmium Leaching Test as per FDA

Sample	Type of Test Conducted/Method	Test Result in PPM			Comment
		Average	Pb (ppm)	Cd (ppm)	
Brass Plate coated with Clear Guard Brass Coating Lacquer	Lead and Cadmium Leaching Test as per FDA/ASTM E-1613-04 & C-738	Average	0.30 ppm	<0.05 ppm	SATISFACTORY

CONCLUSION/REMARKS : PASS

Note:

1. This test result relate to the item(s) tested.
2. This report is not to be produced wholly or in part and cannot be used as evidence in the court of Law & should not be used in any Advertising Media without prior permission of CSIR-NML in writing.

Authorized Signatory

Dr. Ashok Kumar Mohanty
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JAMSHEDPUR-831007

Ashok Kumar Mohanty
24.11.2014

(Dr. A. K. Mohaty)
Senior Scientist

Corrosion & Surface Engineering Division
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END OF REPORT

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