

**Test Report No. 221409988-01**  
**Dated 13 Jul 2016**

**Note:** This report is issued subject to the Testing and Certification Regulations of the TÜV SÜD Group and the General Terms and Conditions of Business of TÜV SÜD Malaysia Sdn Bhd. In addition, this report is governed by the terms set out within this report.



Choose certainty.  
Add value.

**SUBJECT**

Pencil hardness

**CLIENT**

AUTOTRIZ WORLDWIDE,  
LOT43 JALAN BIDARA 2/5, TAMAN BIDARA,  
68100 BATU CAVES  
SELANGOR, MALAYSIA.

**SAMPLE RECEIVING DATE / TEST DATE**

20 Jun 2016 / 21 Jun 2016 – 23 Jun 2016

**DESCRIPTION OF SAMPLE / CONDITION OF SAMPLE RECEIVED**

Product Name : Autotriz 3d Matrix Coating  
Part Number : V-1  
Country of Origin : Germany  
Sample Condition : The samples are received in good condition, no scratch or damage was observed.

**METHOD OF TEST**

The samples were tested in accordance with customer requirement.  
Test Method: JIS K 5400 Testing Methods for Paints

**TEST FACILITY**

TÜV SÜD Malaysia Sdn Bhd  
36, Jalan Serendah 26/39,  
Kawasan Perindustrian HICOM, Seksyen 26,  
40400 Shah Alam, Selangor Malaysia.

**TESTED/PREPARED BY**

Wan Mohd Effendi  
Engineer

**APPROVED BY**

Goh Chun Yeong  
Lab Manager

Laboratory:  
TÜV SÜD Malaysia Sdn Bhd  
36, Jalan Serendah 26/39,  
Kawasan Perindustrian HICOM,  
Seksyen 26, 40400 Shah Alam,  
Selangor Malaysia.

Phone : +603 5103 8128  
Fax : +603 5103 8129  
E-mail: enquiry@tuv-sud.my  
www.tuv-sud.my

Regional Head Office:  
TÜV SÜD Asia Pacific Pte. Ltd.  
3 Science Park Drive #04-01/0  
The Franklin, Singapore 118223  
TÜV®



**TABLE OF CONTENTS**

---

<b>CONTENTS</b>	<b>PAGE</b>
TEST SUMMARY	3
TEST RESULT	4
PICTURE OF TEST SAMPLE	5
TEST INSTRUMENT	6
TERMS AND CONDITION	7





**TEST SUMMARY**

The sample was tested in accordance with customer specification.

**Test Summary**

Test Standard	Test Description	Judgment
JIS K 5400 - 1990 Testing Methods for Paints	Pencil hardness From (9B to 9H)	Reported



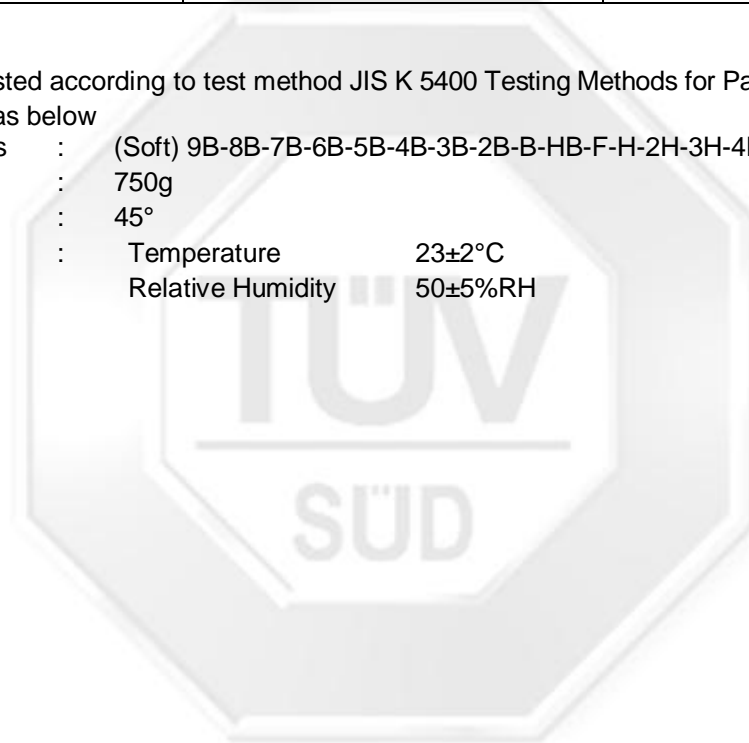


**TEST METHOD**

Sample	Evaluation	Judgment
1	Above 9H	Reported
2	Above 9H	Reported
3	Above 9H	Reported

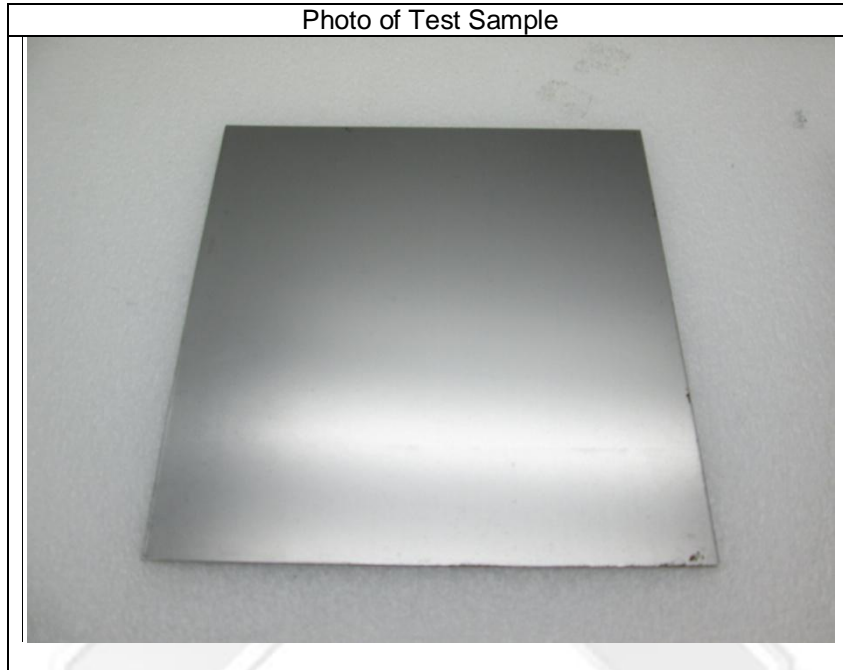
Note:

- I. Sample was tested according to test method JIS K 5400 Testing Methods for Paints.
- II. Test condition as below
  - Pencil hardness : (Soft) 9B-8B-7B-6B-5B-4B-3B-2B-B-HB-F-H-2H-3H-4H-5H-6H-7H-8H-9H (Hard)
  - Load : 750g
  - Angle : 45°
  - Lab : Temperature 23±2°C
  - Environmental : Relative Humidity 50±5%RH
  - Conditions





**PICTURE OF TEST SAMPLE**





Test Instrument, Pencil Hardness Tester

Instrument	Model	S/No	Cal Due Date
Pencil Hardness Tester	BYK PH-5800	912	-

**Note:**

1. Lab Environmental Condition : Temperature 23±2°C  
during testing : Relative Humidity 50±5%RH

**Test Report No. 221409988-01**  
**Dated 13 Jul 2016**



**Please note that this Report is issued under the following terms :**

1. This report applies to the sample of the specific product/equipment given at the time of its testing/calibration. The results are not used to indicate or imply that they are applicable to other similar items. In addition, such results must not be used to indicate or imply that TÜV SÜD Malaysia Sdn Bhd approves, recommends or endorses the manufacturer, supplier or user of such product/equipment, or that TÜV SÜD Malaysia Sdn Bhd in any way "guarantees" the later performance of the product/equipment. Unless otherwise stated in this report, no tests were conducted to determine long term effects of using the specific product/equipment.
2. The sample/s mentioned in this report is/are submitted/supplied/manufactured by the Client. TÜV SÜD Malaysia Sdn Bhd therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture, consignment or any information supplied.
3. Nothing in this report shall be interpreted to mean that TÜV SÜD Malaysia Sdn Bhd has verified or ascertained any endorsement or marks from any other testing authority or bodies that may be found on that sample.
4. This report shall not be reproduced wholly or in parts and no reference shall be made by the Client to TÜV SÜD Malaysia Sdn Bhd or to the report or results furnished by TÜV SÜD Malaysia Sdn Bhd in any advertisements or sales promotion.
5. Unless otherwise stated, the tests were carried out in TÜV SÜD Malaysia Sdn Bhd, 36, Jalan Serendah 26/39, Kawasan Perindustrian HICOM, Seksyen 26, 40400 Shah Alam, Selangor, Malaysia.

May 2014

