

TEST REPORT: 57S066481-CCK



Date: 29 NOV 2006

Tel: +65 68851322 Fax: +65 67784301

Client's Ref: SIV No. 59232

Email: tai-hoe.lin@psbcorp.com

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SUBJECT

Taber abrasion test of one sample of coated panels

CLIENT

Ordnance Development & Engineering
Company of Singapore (1966) Pte Ltd
15 Chin Bee Drive
Singapore 619863

Attn : Mr Pek Hwa Keng

SAMPLE SUBMISSION DATE

10 Nov 2006

DATE TEST CONDUCTED

17 Nov to 23 Nov 2006

DESCRIPTION OF SAMPLE

One sample of coated panels described as follows, was submitted by the above client:

Description	Quantity
Supplied sample coated by Richport Technology Sample plates coating according to MIL-A-8625 Type III	3 pieces



Pek Hwa Keng
Signature
Date: 29/11/2006



Laboratory:
TÜV SÜD PSB Corporation Pte. Ltd.
Testing Group
No.1 Science Park Drive
Singapore 118221

Phone: +65-6885 1333
Fax: +65 6776 6670
E-mail: testing@psbcorp.com
www.psbcorp.com
Co. Reg : 199002667R

Regional Head Office:
TÜV SÜD Asia Pacific Pte. Ltd.
3 Science Park Drive
#04-01/05 The Franklin
Singapore 118223



METHOD OF TEST

- 1) MIL-A-8625F
"Military Specification – Anodic Coatings for Aluminum and Aluminum Alloys"
Clause 4.5.5 : Abrasion resistance

Abrasive wheel : CS 17
Wheel loading : 1000 g
No. of cycles : 10,000 cycles
Ambient temperature : 23 ± 2°C
Relative humidity : 65 ± 5%

- 2) FED-STD-141C Method 6192.1
"Abrasion Resistance (Taber Abraser)"

RESULTS

Test Item	Specimen 1	Specimen 2
Taber Abrasion Test Wear Index, mg/1000 cycles	2.53	2.49
	Mean : 2.51	

CHUA CHENG KOK
TECHNICAL EXECUTIVE

MRS WONG-LIN TAI HOE
PRODUCT MANAGER
COATINGS
CHEMICAL & MATERIALS

Pek Hwa Kong
Siv Engineer
Quality Assurance

Singapore Technologies Kinetics

INSPECTION REPORT

PART NO	: NIL	SHEET	1	OF	1
PART NAME	: Abrasion resistance test for sample plate after hard anodic coating	RECEIVER / LOT NO	: NIL		
MATERIAL	: AA-7075-T6	PO NO	: NIL		
QUANTITY	: 1 pc	SNCA NO	: NIL		
INSPECTION PLAN	: 1 pc	SUPPLIER	: Richport Technology		

S/ NO	SPECIFICATION	INSTRUMENT	FINDINGS
1	Test conducted according to : MIL-A-8625	Refer to PSB report number :	2.49mg / 10 = 0.249 (wear index = 0.249) Please refer to attached MIL-A-8625 (page : 13)
	Wear index : ≤1.5mg/1000cycles	57S066481-CCK	

REMARKS : To perform abrasion resistance test according to MIL-A-8625. This test is to qualify the Anodic coating tank at Richport Technology.

Sample plate size : 100mm X 100mm X 1mm(t)

INSPECTED BY	: _____	ACCEPT	: _____ ✓
DATE	: _____	REPAIR / REJECT	: _____
VERIFIED BY	: Pak Hwa Kong Sr. Engineer	APPROVED BY	: _____
DATE	: 18/12/06	APPROVED DATE	: 18-12-2006