

TEST REPORT: 7191088977-CHM14-01-PGK

Date: 16 JUN 2014

Tel: +65 68851322 Fax: +65 67784301

Client's Ref:

Email: tai-hoe.lin@tuv-sud-psb.sg

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SUBJECT

Neutral Salt Spray (NSS) Test on Screws

CLIENT

EJOT Asia Pacific Pte Ltd
32 Old Toh Tuck Road
#04-05
I.Biz Centre
Singapore 597658

Attn: Mr Noel Yu

SAMPLE SUBMISSION DATE

24 Feb 2014

DATE TEST CONDUCTED

28 Feb to 11 Apr 2014

DESCRIPTION OF SAMPLE

One sample of self drilling screws described as follows, was submitted by the above client:

Brand : "EJOT"
Model : JT2-6-5.5X25 C1000
Quantity : 5



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

Phone : +65-6885 1333
Fax : +65-6776 8670
E-mail: testing@tuv-sud-psb.sg
www.tuv-sud-psb.sg
Co. Reg : 199002667R

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



METHOD OF TEST

1. AS 3566.2 - 2002
"Self-drilling screws for the building and construction industries –
Part 2 : Corrosion resistance requirements"
2. AS 2331.3.1 - 2001
"Methods of test for metallic and related coatings – Corrosion and related property tests –
Neutral salt spray (NSS) test"

Test Conditions :

Concentration of salt solution	: 5 ± 1% w/w NaCl
S.G. of condensate	: 1.029 - 1.030
pH of condensate	: 6.5 – 7.0
Volume of condensate	: 1.0 - 2.0 ml/hr/80 cm ²
Test chamber temperature	: 35 ± 2°C
Exposure angle	: Inclined 15° from vertical
Exposure duration	: 1,000 hours
Method of Cleaning	:
Before test	Nil
After test	Water-rinse and air-dry

Method of Assessment

ISO 10289 : 1999
"Methods for corrosion testing of metallic and other inorganic coatings on metallic substrates
– Rating of test specimens and manufactured articles subjected to corrosion tests"



RESULTS

Test Conducted	"EJOT" JT2-6-5.5X25 C1000 Self Drilling Screws	AS 3566.2 : 2002 Class 3 Requirements
Neutral Salt Spray Test, 240 hours	No rusting nor blistering of coating on all five tested screw heads and other areas of screws	<u>Screw heads and other areas of screws:</u> - Red rust shall not be over 5% of significant areas - No blistering of coating
Neutral Salt Spray Test, 1,000 hours	- Few tiny rust spots (less than 5%) on one tested screw heads - No rusting on four tested screw heads - No blistering of coatings on all five tested screw heads	<u>Screw heads :</u> - Red rust shall not be over 5% of significant areas - No blistering of coating

Remark : Test was conducted on five screws mounted in non-metallic fixture.

All five tested screws met AS 3566.2 : 2002 Class 3 requirements on neutral salt spray resistance.

MS PECK GEOK KHOON
TECHNICAL EXECUTIVE

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

"EJOT" JT2-6-5.5X25 C1000

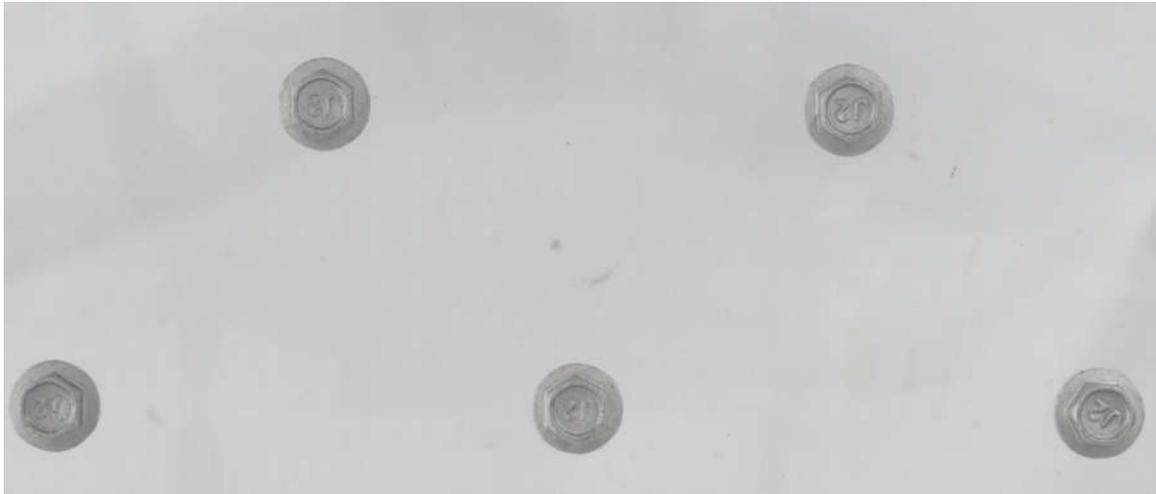


Figure 1. Before Test



Figure 2. After 240 hours Neutral Salt Spray (NSS) Test



Figure 3. After 240 hours Neutral Salt Spray (NSS) Test



"EJOT" JT2-6-5.5X25 C1000

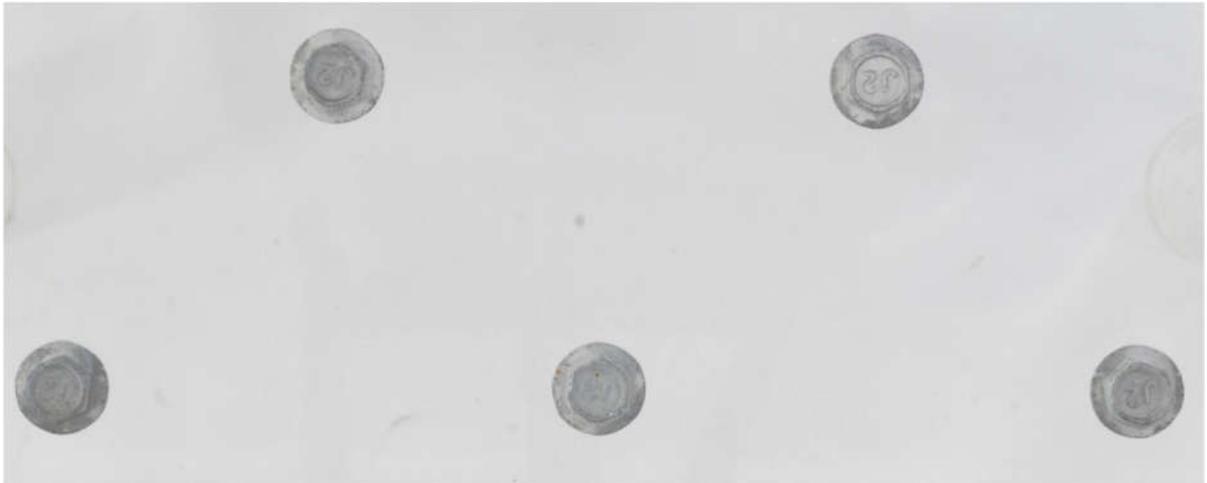


Figure 4. After 1,000 hours Neutral Salt Spray (NSS) Test

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July 2011

