

## TEST REPORT: 7191088977-CHM14-01-PGK

Date: 16 JUN 2014

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Client's Ref:

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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



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**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 <sup>2</sup>
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

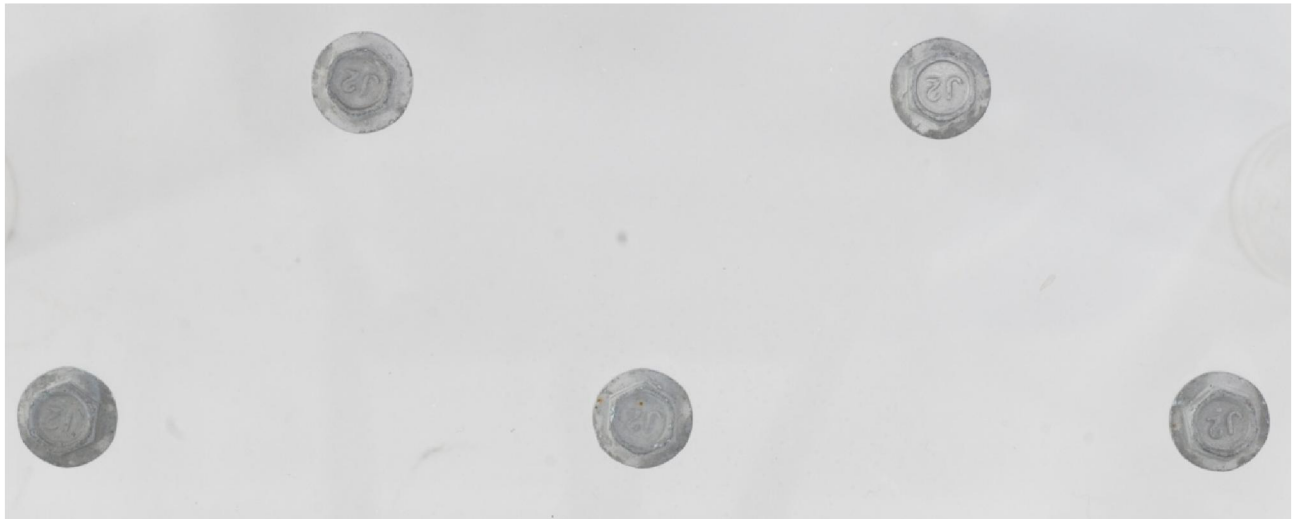


Figure 4. After 1,000 hours Neutral Salt Spray (NSS) Test

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July 2011

