

SCROOBY'S LABORATORY SERVICE (Pty) Ltd*Spectrographic, Chemical and Mechanical Testing of Materials*

Established 1999

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Date Received: 30 February 2024

Date Tested: 31 – 22 February 2024

Date Reported: 28 February 2024

ATTENTION: Mr Joubert Zietsman

Order No:

CERTIFICATE OF TESTREFERENCE No: **34965*****SALT SPRAY TESTING OF PLATES*****INTRODUCTION**

Two samples were supplied for salt spray testing as described in SANS / ISO 9227 : 2014.

The exposure period was to be 500 hours.

The components were identified as;

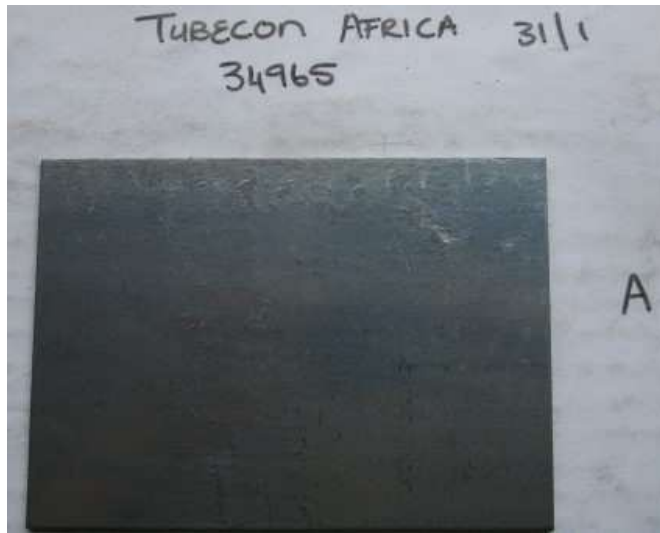
Plate – JP357536D2-ZAM310 S350GD

Half pipe section

SALT SPRAY TEST

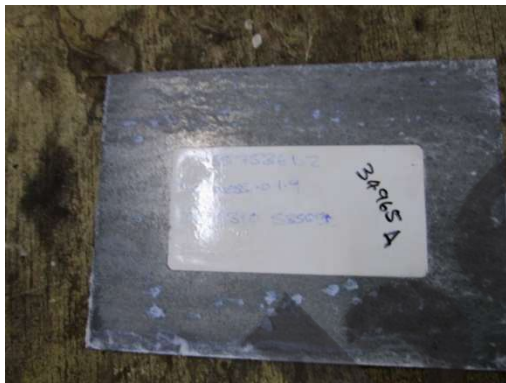
The test was conducted as per the SANS / ISO 9227: 2014 specification. The actual conditions of test are tabulated as follows.

Condition	Average over 500Hrs	SANS / ISO 9227: 2014
Temperature of exposure zone °C	34.5	35 ± 2
Fog collection rate ml.80cm ⁻² .hr ⁻¹	1.45	1 – 2
pH of collected fog at 20°C	6.75	6.5 – 7.2
SG of collected fog @ 25°C	1.03	
Salt concentration % (NaCl)	5.38	5% or 50g/l ±5g/l
Salt (NaCl) used for solution.	AR	
Water used for solution.	De-ionised	De-ionised

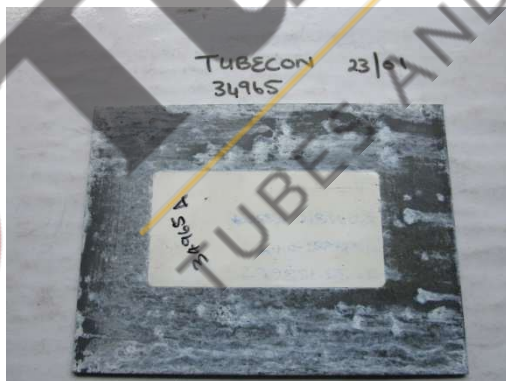
Samples as received**OBSERVATIONS****PLATE**

After 24 hours white rust was observed.

After 216 hours, only white rust was observed at random spots on the surface of the plate.



After 500 hours exposure the component was removed from the chamber, rinsed with warm water and immediately dried. When inspected by the naked eye, there are no signs of pitting, or base metal ferrous corrosion.



OBSERVATIONS**HALF STEEL PIPE**

After 24 hours white rust was observed.

After 48 hours, small isolated spots of red ferrous rust were observed.

After 216 hours, white rust continues to intensify, red rust develops on the outer surface of the pipe.



After 500 hours exposure the component was removed from the chamber, rinsed with warm water and immediately dried. When inspected by the naked eye, there are no signs of pitting, base metal ferrous corrosion is observed more on the outer surface than on the inner surface.



Technical Signatory

The results relate only to the items as received and tested.

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