



TSR 18-T636

DIN EN ISO 9227 TESTING

for Corrosion Control Ltd, 48 Riverside Drive
Whangarei 0140

BACKGROUND:

Requestor	Thomas Mueller Corrosion Control Ltd. 48 Riverside Drive Whangarei 0140 New Zealand.	Phone: +64 (0)9 438 88 00
Test Venue	Dulux Powder & Industrial Coating NZ Ltd Technical & Innovation Laboratory 31B Hillside Road Glenfield Auckland 0627 New Zealand www.duluxpowdercoatings.co.nz	Ph +64 9 441 8244 Fax: +64 9 441 8242
Test Period	13.9.18 TO 21.9.18	
Date of report	25.9.18	
Report by	Prasanna Shenoy Technical Services Chemist Dulux Powder and Industrial Coatings Ltd	

TEST OBJECTIVES:

The following Q-Lab panels coated with various anti corrosion lubes labelled as below were provided for testing as per DIN EN ISO 9227 at 96hrs and 200hrs.

- a. BriLube 30= 1panel
- b. CorrosionX-Grease(CX-G) = 2 panel
- c. CX-HD= 2 panel
- d. NAVGUARD= 1 panel
- e. Lanoguard= 2 panels
- f. XD=1 panel

TEST METHOD:

1. The initial photos of the samples are taken before commencing the test.
2. The samples are placed in Neutral salt spray cabinet making sure samples are not touching each other.
3. The samples are inspected periodically and photos taken to capture the onset of corrosion.
4. Corrosion >3% of the area is deemed **FAIL** as per AS 2331.3.1—2001 (Reconfirmed) 2017-04-07. (A rating of 8 with corrosion under 3% area is deemed PASS)

Rating of Unscribed Areas

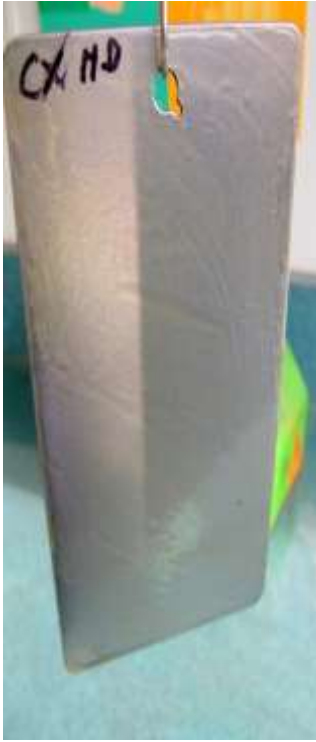
Area Failed (%)	Rating Number
No failure	10
0 - 1	9
2 - 3	8
4 - 6	7
7 - 10	6
11 - 20	5
21 - 30	4
31 - 40	3
41 - 55	2
56 - 75	1
> 75	0

Minimum blister rating of 8 within the test specimen field, in accordance with the above tables.

5. Report.

TESTING:

Panel no	0 hrs	96 hrs	200 hrs
BriLube 30			
CorrosionX-Grease (CX-G)			

CX-HD	 A rectangular metal plate with a smooth, light gray surface. The text "CX HD" is handwritten in black marker at the top left. A small hole is visible near the top center.	 The back of the metal plate, showing a dark, textured surface with vertical ridges. The text "CX HD" is handwritten in black marker at the top left. A small hole is visible near the top center.	 The front of the metal plate, showing a smooth, light gray surface. The text "CX HD" is handwritten in black marker at the top left. A small hole is visible near the top center. There is some yellowish-brown rust or staining at the top right corner.
Navguard	 A rectangular metal plate with a smooth, light gray surface. The text "NAV GUARD" is handwritten in blue marker at the top. A small hole is visible near the top center.	 The back of the metal plate, showing a dark, textured surface with vertical ridges. The text "NAV GUARD" is handwritten in blue marker at the top. A small hole is visible near the top center.	 The front of the metal plate, showing a smooth, light gray surface. The text "NAV GUARD" is handwritten in blue marker at the top. A small hole is visible near the top center. There is significant yellowish-brown rust or staining covering most of the surface.

Lanoguard			
XD			

FINDINGS:

Panel Detail	At 96hrs	At 200hrs
Brilube 30	2% corrosion	90% corrosion
CorrosionX Grease(CX-G)	Three corrosion spots at edges	Edge corrosion (1%)
CX-HD	No visible corrosion	Minor stains on edges (1%)
Navguard	No visible corrosion	30 -40 % corrosion
Lanoguard	90% corrosion	95% corrosion
XD	One corrosion spot at the edge	Two corrosion spots on the edge (1% corrosion)

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