

NEUTRAL SALT SPRAY REPORT

DATE: 4/06/2025 LAB REQUEST NUMBER: 14174

Process:

- 3 Parts supplied by A&A and 2 parts from TURNER for comparative Neutral Salt Spray testing.

Salt Spray Cabinet Operating Conditions:

*Neutral Salt spray test performed according to ASTM B117
Salt used: Sodium Chloride*

Salt Concentration	50 ± 5 g/L
Pressure	0.07 – 0.17 MPa
Chamber Temperature	35°C
pH (Salt Solution)	6.5 - 7.2
SG (Salt Solution)	1.029 – 1.036
Orientation	70° from the horizontal

HDG Parts were in the salt spray chamber from the 31/03/2025 to the 22/04/2025.

High Build A and A parts were in the salt spray chamber from the 19/03/2025 to the 14/05/2025.

A and A parts were in the salt spray chamber from the 7/04/2025 to the 4/06/2025.

Corrosion Results:

TURNER HDG PARTS: Part 1 has severe white rust by 48 hours and red rust by 528 hours. Part 2 has severe white rust by 24 hours and red rust by 168 hours.

A and A HIGH BUILD: Part 1 and 2, white rust starts developing by 1008 hours. Part 3 has white rust by 24 hours and red rust by 864 hours.

Comments:

Salt Spray Photos:

Part #1 (HDG part supplied by Turner)		
		
0 HOURS	24 HOURS	48 HOURS

Part #1 (HDG part supplied by Turner)		
		
168 HOURS	528 HOURS	

Part #2 (HDG part supplied by Turner)



0 HOURS



24 HOURS



48 HOURS

Part #2 (HDG part supplied by Turner)



168 HOURS

Part #1 (A and A – SurTec 704 and SurTec 688)



0 HOURS



168 HOURS



336 HOURS

Part #1 (A and A – SurTec 704 and SurTec 688)



504 HOURS



1008 HOURS



1344 HOURS

Part #1 (A and A – SurTec 704 and SurTec 688)



1512 HOURS



1680 HOURS



1848 HOURS

Part #1 (A and A – SurTec 704 and SurTec 688)

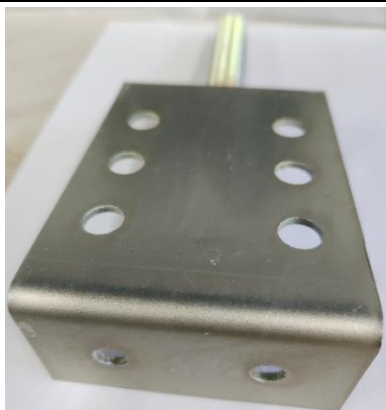


2016 HOURS

Part #2 (A and A – SurTec 704 and SurTec 688)



0 HOURS



168 HOURS



336 HOURS

Part #2 (A and A – SurTec 704 and SurTec 688)



504 HOURS



1008 HOURS



1344 HOURS

Part #2 (A and A – SurTec 704 and SurTec 688)



1512 HOURS



1680 HOURS



1848 HOURS

Part #2 (A and A – SurTec 704 and SurTec 688)



2016 HOURS

Part #3 (Zinc Nickel supplied by A and A)



0 HOURS



24 HOURS



48 HOURS

Part #3 (Zinc Nickel supplied by A and A)



552 HOURS



864 HOURS



864 HOURS

Color code:

Green: Pass

Yellow: White Rust

Red: Red Rust(Failed)

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