



PAZ LUBRICANTS & CHEMICALS (MARKETING & TRADING) LTD.  
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# LAB REPORT

## A.SCOPE

The scope of the lab report is to describe the test of Sherardized coated nails with coating thickness of 50-60 microns, in Salt Spray cabinet conforms to ASTM B-117 for 1000 hours, and watch the results.

Nails Sherardized coated at Distek company.

The test accomplished in the Salt Spray cabinet of the ISO 9000 certified lab of Paz Lubricants and Chemicals, located in Haifa.

Final results showed that 8.2% area of the Sherardized coated nails, covered with red spots.

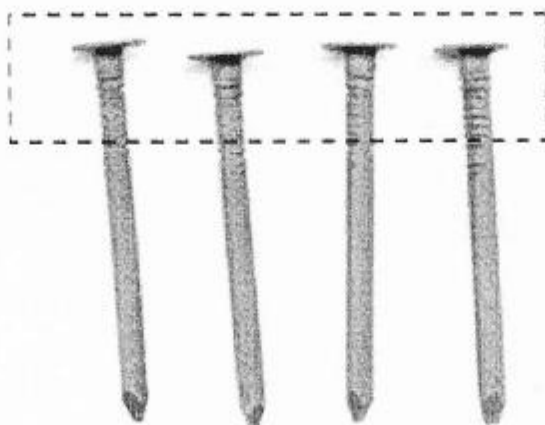
Note: Orange staining of sherardized coatings may occur early in their life outdoors but this is not detrimental to their performance.<sup>1</sup>

## B. Methodology

Nails was tested to red spots by hanging them as in the following picture. The neck of the nails is the best and easiest way to hold the nails in the cabinet.

The nails was held by polyethylene piece with holes which the nails lean through it as seen in the table below refer to 0 time.

The spot where the  
fasterers are fixed



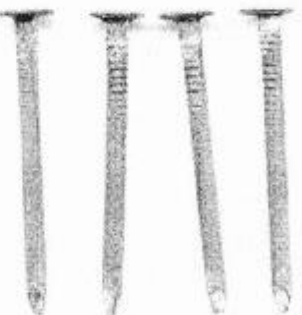


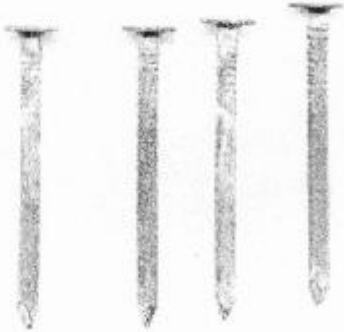

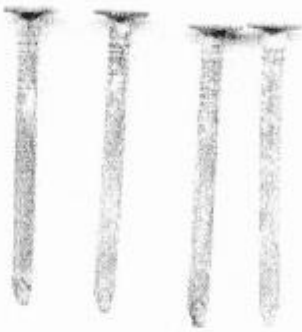
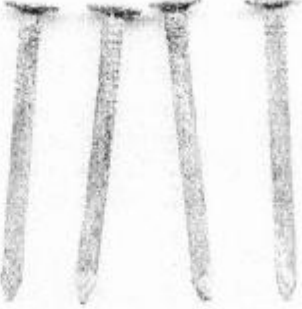
Number of tested nails was 60 and every week after weekend, after 168 hours in the ASTM B 117 Salt Spray cabinet, 10 nails removed (no reversible), from the cabinet, rinsed in D.I water and dried

to check the results for Red spots. Last round was only after 160 hours which was the measure of 1000 hours salt spray residence.

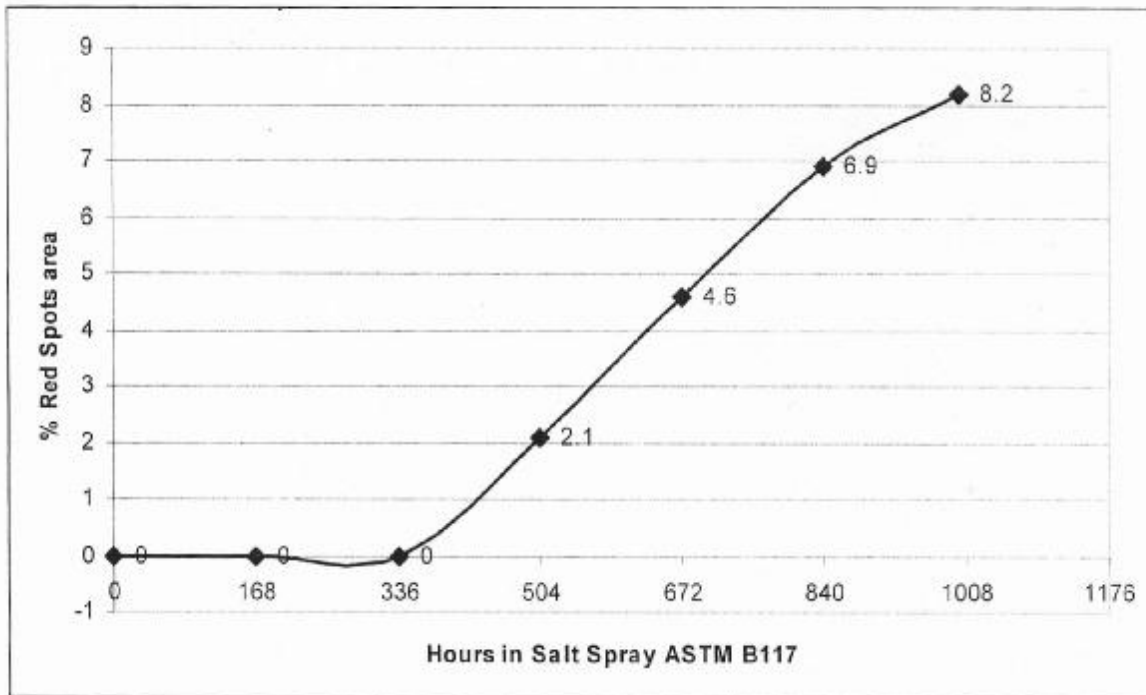
### C. Test Results

Test results are shown in the following table :

TIME	% Red spots area	Nail Picture
0	0	
168	0	
336	0	

504	2.1	
672	4.6	
840	6.95	
1000	8.2	

Graficaly we can exhibit as follow:



#### D. Publication source

1. British Standard BS 4921:1988 , "Sherardized Coatings on iron or steel" , pp 4 . British Standards Institution. 1998

Signed by

Y. Blau  
Chemical Engineer  
Paz Lubricants and Chemicals