



JS500 Information

Distributed by TORCAD Limited

JS500 product is known as Sun Seal in the Cover-All literature

An outstanding corrosion resistant silver white finish. JS500 provides effective, economical corrosion protection without adversely affecting dimensions. With .0003" minimum deposit of zinc the finish will provide protection well in excess of 500 hours salt spray life to red rust and will withstand 5 cycles of the Kesternich test.

JS accepts paints and Torcad can provide salt spray resistance in excess of 1500 hours using a suitable combination of JS and organic finish. This also allows the use of colors.

JS may be also used as a substitute for Cadmium when in combination with a solid lubricant embedded in the JS structure, so giving Cadmium's properties of corrosion resistance and lubricity.

JS is non-toxic and may be safely used with food products.

The processing method may introduce hydrogen embrittlement in certain hardened steels. It is the user's responsibility to ensure that Torcad be informed if baking for de-embrittlement is required, and that the baking procedure employed by Torcad meets the customer's requirements.

**JS500 Specifications
Zinc JS500 Series**

**Minimum Coating Thickness
to Salt Spray**

μm	Hrs to White	Hrs to Red
8	96	500
11	96	650
13	96	1000
8+ organic	1500	

Automotive Specifications

**GENERAL MOTORS
GM 4345-M Code 8D 500/96**

**FORD
ESE-M21P17-A2**

**CHRYSLER
PS-8814**



Salt Spray Results of JS500 as per ASTM B-117

Mechanical Zinc & Hot Dip Galvanizing

TEST # 1

No. of Pcs Checked – 6
 Zinc Plating Film Thickness
 JS500 - 0.37 mils (Avg)
 Mech - 1.25 mils (Avg)
 HDG - 1.00 mils (Avg)

TEST # 2

No. of Pcs Checked – 6
 Zinc Plating Film Thickness
 JS500 - 0.47 mils (Avg)
 Mech - 2.14 mils (Avg)
 HDG - 2.00 mils (Avg)

RESULTS:

TEST # 1

White rust
 on Mech & HDG in less than 24 hs.
 on JS500 after 168 hrs.

Red rust
 on Mech after 432 hrs.
 on HDG after 456 hrs.
 No Red rust on JS500 after 1000 hrs.

TEST # 2

White rust
 on Mech & HDG in less than 24 hrs.
 on JS500 after 240 hrs.

Red rust
 on Mech after 696 hrs.
 on HDG after 648 hrs.
 No Red rust on JS500 after 1200 hrs.

**TEST PERIOD
 Hrs.**

<u>Test Period 1</u>	24	48	72	96	120	144					
<u>Test period 2</u>	188	192	216	240	264	288	312	338	360	384	408
<u>Test period 3</u>	432										
<u>Test period 4</u>	456	486									
<u>Test Period 5</u>	504										