



JS500 PLATING SYSTEM

THE ULTIMATE ANTI-CORROSION PROTECTION SYSTEMS

HEXAVALENT CHROMIUM FREE



All Leland fasteners are plated with an outstanding corrosion resistant finish, providing effective, economical corrosion protection without adversely affecting dimensions.

- Parts coated to this specification shall be capable of withstanding salt spray testing per ASTM B117 for the minimum hours shown in the tables. Items for test must be air cured for 24 hours prior to salt spray testing.
- Salt spray requirements to apply to significant surfaces only.
- Acceptable resistance is defined as no corrosion products on significant surfaces after exposure to neutral salt spray. Black or gray staining or spotting does not constitute a failure.
- Red rust failure is defined as the first sign of red rust on any significant surfaces.
- Due to the extended testing times associated with these finishes it is normal practice that work be accepted on the basis of zinc thickness.
- JS500 is compatible with aluminum creating no galvanic reaction.
- FDA approved.

HYDROGEN DE-EMBRITTELEMENT

- This should be carried out immediately after plating and prior to chromating.
- Stress relieving to be carried out at 400°F for four hours on .0003 inch plating and 8 hours for .0005 inch plating. These are minimum requirements.

With .0003" Minimum plating this finish will give well in excess of 500 Hours Salt Spray life with no Red Rust and will also give a minimum of 5 cycles in Kesternich (1 litre SO2 per cycle) testing.

RELATIVE EFFECTIVENESS OF CORROSION RESISTANT COATINGS				
FINISH	SUBSTRATE	APPLICATION	SALT SPRAY HOURS TO RED RUST	KESTERNICH (1 LITRE SO ₂ PER CYCLE) TO RED RUST
POWDER COATING	JS500	SCREWS, HEX WASHER HEADS, RECESS HEADS, BOLTS, BIN BOLTS	3000	50+ CYCLES 2 LITRE SO ₂ PER CYCLE
DT2000	JS500	SCREWS, HEX WASHER HEADS, RECESS HEADS, BOLTS, BIN BOLTS	2000	35
DT1700	JS500	SCREWS, HEX WASHER HEADS, BOLTS	1700	18
DT1500	JS500	SCREWS, HEX WASHER HEADS, BOLTS, NUTS, BIN BOLTS\	1500	13
DT1500	JS500	BOLTS AND SCREWS WITH RECESS HEADS, BIN BOLTS AND NUTS, MACHINE SCREWS <small>TO ACCOMMODATE THREAD ENGAGEMENT A THINNER COATING OF DT1500 IS USED ON BOLTS</small>	1500	8
JS500	.0003 ZINC	BOLTS, NUTS , SCREWS	500	5
ZINC DICHROMATE (.0002 / .0005)	----	----	108 (.0002)	N.A.

OTHER COATINGS AVAILABLE FROM LELAND

Phosphate & Oil, Hot Dip Galvanizing, Black Zinc, Zinc & Yellow Dichromate

All test results are based on laboratory tests. Specific job site conditions should be taken into consideration when specifying the proper fastener. Because applications vary, we assume no liability for use of this information.