



DT2000 PLATING SYSTEM

ENHANCED ANTI-CORROSION PROTECTION SYSTEMS



HEXAVALENT CHROMIUM FREE

Leland fasteners may be coated with an enhanced 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 and Kesternich (1 litre SO₂ per cycle) testing for the minimum hours shown in the tables.
- 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 1% of 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.
- Does not promote electrolytic action.
- Totally compatible with galvalume.

DT2000 is an anti-corrosion system developed by Leland Industries.

It combines the best elements of individually superb plating and coating systems.

The combined system begins with an application of JS500 clear zinc chromate plating, with a minimum of .0003 plating. (See JS500 Plating System).

After JS500 base plating the parts receive a silver, water based topcoat paint. DT2000 provides in excess of 2000 hours of salt spray testing, and minimum of 35 cycles in Kesternich (1 litre SO₂ per cycle) testing.

The paint is a water based coating, containing a pigmented system of aluminum flake. The paint cross-links with the JS solution, at a peak metal temperature of 400°F. This provides a melded multi-layered anti-corrosion system. Additionally the paint will provide consistent torque tension, while reducing assembly times, and it's handling resistant.

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	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 ACCOMODATE 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 and suggestions 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.