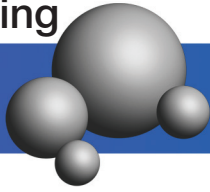


ND LM-1293[®]

Masking/Lubricating



PreApplied

ND Industries[®] is ISO9001:2000 / AS9001B / QPL-18240F Listed / QSLM Registered

ND
INDUSTRIES

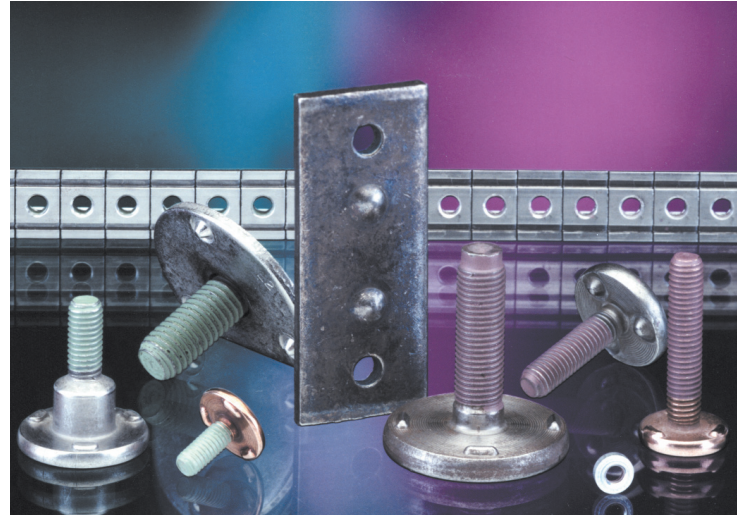
Automotive Approved

DESCRIPTION:

- ❑ ND LM-1293 is an automotive approved process in which fasteners are accurately coated with one of a variety of thread masking and lubricating materials. The use of a Teflon[®] type material and a proprietary binder system in ND LM1293 makes it the ideal coating for many applications.
- ❑ ND LM-1293 can be applied to male or female, ferrous or non-ferrous threaded fasteners of virtually any finish. It is a cross-linked coating providing excellent solvent resistance, high temperature resistance, e-coat resistance (as specified under GM6076-M), resistance to weld spatter, and improvement to torque-tension properties.
- ❑ ND LM-1293 lubricates fastener threads to reduce driving friction, heat buildup, and thread galling in long rundowns while helping to ensure uniform clamp loading.
- ❑ To meet your specific application needs, ND LM-1293 employs a wide range of polymers, including fluorinated ethylene polymer (Teflon[®]-type) material.
- ❑ Applications:
 - Resists adhesion of automotive underbody coatings
 - Welded nuts, studs, and pierce nuts
 - Large Appliances
 - Construction
 - Heating & cooling compressors

FEATURES:

- ❑ **Reliable Masking:** ND LM-1293 prevents undesirable substances such as electro-deposited undercoatings, weld spatter and some other materials from adhering to fastener threads.
- ❑ **Low Heat Process:** Unlike competitive processes which often subject parts to extremely high temperatures that may damage or discolor the fastener, ND's unique patented process employs minimal heat.



FEATURES CONTINUED:

- ❑ **Minimal Pre-cleaning Requirements:** Unlike competitive processes that require parts be completely free of oil or other rust preventative coatings, only parts with excess oil or surface contaminants may require pre-cleaning for ND's LM-1293 processing.
- ❑ **Increases Productivity:** By providing additional lubricity, ND LM-1293 speeds assembly operations and increases productivity.
- ❑ **Eliminates Capping and Plugging:** ND LM-1293 eliminates the need to cap male and plug female threads.

ND LM-1293 meets or exceeds the performance requirements of the following specifications and/or standards:

AUTOMOTIVE

- ❑ DaimlerChrysler PS-8542
- ❑ General Motors GM 6076-M
- ❑ Ford Motor Company WSS-M21P27-A3

For a complete list, contact ND INDUSTRIES.

SPECIFICATIONS:

- | | |
|--|---|
| <input type="checkbox"/> Primary usage | Thread masking/thread lubricating |
| <input type="checkbox"/> Material..... | Poly (Tetrafluoroethylene) (PTFE)
(Teflon®-type material); Other polymers available |
| <input type="checkbox"/> Color | Purple, teal and pale yellow (other colors available upon request) |
| <input type="checkbox"/> Service temperature range | -65° to +400°F |
| <input type="checkbox"/> Solvent resistance (ASTM D5402-93 (99)) | 150 double MEK rubs |
| <input type="checkbox"/> K Value (ASTM D5648-01)..... | 0.14 (typical value) (3/8" x 16 x 1 1/4" dry zinc phosphate coated steel nuts and bolts) K value = torque / tension x bolt diameter |
| <input type="checkbox"/> % Solids (by weight) (ASTM D2369-01)..... | 50% |

Note: See MSDS for Safety & Material Handling Instructions.

™ ND LM-1293 is a trademark of ND Industries, Inc.

® TEFLON is a registered trademark of E.I. DuPont de Nemours & Co.

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