

### ROYCO<sup>®</sup> 1MS Aviation Grease

#### Description

**Royco<sup>®</sup> 1MS** anti-seize thread compound is a blend of lubrication grade, micro-fine powdered, molybdenum disulfide that conforms to SAE-AMS-M-7866, and technical grade petrolatum conforming to VV-P-236. Royco<sup>®</sup> 1MS is non-abrasive, highly shear stable, and has a relatively low volatility compared to other thread compounds.

#### Application

**Royco<sup>®</sup> 1MS** is particularly suitable for use on aircraft engine spark plugs, threaded fasteners and fittings at temperatures below 427°C (800°F). At higher temperatures, Royco<sup>®</sup> 44 conforming to SAE AMS-2518 should be used in lieu of Royco<sup>®</sup> 1MS. Since this material is an electrical conductor, it is especially suited for anti-seize applications where the thread compound will not impede electrical flow.

#### Limitations

**Royco<sup>®</sup> 1MS** is an electrically conductive thread compound and should be used with discretion in or near electrical equipment. It is not a sealing compound and should not be used in oxygen systems. It should not be used in lieu of sealing compound, pipe joint and thread, lead free, general purpose, conforming to TT-S-1732. This compound contains molybdenum disulfide which at higher temperature conditions (above 538°C) may induce hot corrosion of fastener or contiguous materials.

#### Approvals and Specifications

**Royco<sup>®</sup> 1MS** meets the requirements of MIL-PRF-83483D.



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#### Technical data\*

PROPERTIES	TEST METHOD	ROYCO® 1MS
Worked Penetration, 77 °F, 1/10 mm	ASTM D217	230
Stability	MIL-PRF-3483D, Para 4.3.3	Pass
Composition	MIL-PRF-3483D, Table 1	Pass
Workmanship	MIL-PRF-3483D, Para 3.4	Pass

\*The analytical data are guide values.

#### Packaging

ROYCO® 1MS is available in 24X1.75 lb. cases. Other packaging may be available on request.

#### Handling

Consult product safety data sheet (SDS) for additional handling information on ROYCO® 1MS.

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