

Specifications

NSN 9150-01-212-1409

McDonnell Douglas HMS20-1155

NS-4405-FG

Gearbox Fluid Grease (NSN 9150-01-212-1409)

A high capacity semi-fluid grease designed for high performance applications. This product exhibits a wide operating temperature lubricant with extreme pressure and antiwear properties. Extreme stability under high centrifugal conditions. Possible applications might include couplings, gear boxes and bearings. This product does not contain solids or silicone.

NS-4405-FG is the only lubricant approved by McDonnell Douglas for use on the Intermediate and Tail Rotor gear boxes on the AH-64 Apache helicopter gun ship.

Characteristics:

- Excellent shear and centrifugal stability
- Nondrying, long service life
- Extreme pressure and anti-wear properties
- Operating temperature range of -65°F(-54°C) to 275°F(135°C)

Typical Properties

Thickener	Li Complex
NLGI grade	000
Penetration, ASTM D217, worked, 60 DS	450
Penetration, ASTM D217, worked, 10,000 DS, max.	460
Oil Separation, FTM 321.3, 30 hrs. @ 212°F, %,max.	30
Specific gravity, ASTM D1298, 60/60°F	.906
Dropping point, ASTM D2265, °C, min	148.9
Evaporation Loss, ASTM D972, 22 hrs.@ 250°F, %, max.	10
Deleterious particles, ASTM D1404, max	10
Corrosive preventive properties, ASTM D1743	Pass
Load Wear Index, ASTM D2596, kgf., min	30
Weld point, Kgf., min.	200
4-Ball Wear, ASTM D2266, average wear scar, max	0.60 mm

Typical Base Fluid Properties

Base fluid	Synthetic Blend
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Material Compatibilities:

Not for use with ABS, polycarbonate, polyester, PPO, or PVC plastics. Not for use on buna S, butyl, or neoprene elastomers. Check with material manufacturer or Syn-Tech concerning compatibility.

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1550F W. Fullerton Ave.
Addison, IL 60101 USA

(630) 628-7290
www.syn-techlube.com

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