

Specifications  
NSN 9150-00-506-8497  
Bell Helicopter 204-040-755-005

## NS-3913-G1

### Gear and Coupling Grease (NSN 9150-00-506-8497)

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NS-3913-G1 is an extreme pressure fortified grease designed for couplings and gears. High film strength components provide long lasting protection. EP and anti-wear additives along with rust inhibitors provide excellent performance for applications ranging from aerospace such as helicopter drive shaft couplings and bearings to industrial applications such as steel mill gear couplings.

NS-3913-G1 is the only lubricant approved by Bell Helicopter Textron for use on their Crown Gear Driveshaft couplings.

Characteristics:

Superior lubricity - low friction, less wear  
High film strength  
EP and anti-wear additives  
Wide operating temperature range of -40°F to +300°F

Typical properties

Penetration, ASTM D217, worked, 60 DS	300
Penetration, ASTM D217, worked, 100,000 DS	400 max.
Dropping point, ASTM D2265, °F(°C), min.	500(260)
Dirt Count,FTM 791b, 3005.3 25 microns and >	1500 max.
Dirt Count,FTM 791b, 3005.3 75 microns and >	500 max.
Dirt Count,FTM 791b, 3005.3 125 microns and >	50 max.
Oil Separation, FTM 321.3, 24 hrs. @ 212°F, %	2.5 max.
Evaporation Loss, ASTM D972, 22 hrs. @ 250°F, %	5
Water Washout, ASTM D1264, 100°F, %	10 max.
Water Washout, ASTM D1264, 175°F, %	10 max.
Bomb Oxidation, ASTM D942, psi	12.5 max
Thickener	Inorganic
Color	Dark Brown

Typical base fluid properties

Flash point, ASTM D92, °F(°C)	470(244) min.
Viscosity, ASTM D445 @ 100°F, cSt	30
Viscosity, ASTM D445 @ 210°F, cSt	5.5
Viscosity, ASTM D445 @ -40°F, cSt	22,000 max.
Viscosity Index Extended, ASTM D2270	130
Pour point, ASTM D97, °F(°C)	-65(-85) max.

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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