

# PRODUCT INFORMATION

A PRODUCT OF AMERICAN CHEMICAL TECHNOLOGIES, INC.



## DuraLife P3500-1

*High Performance, High Temperature, State of the Art Polyurea Based Grease*

### DESCRIPTION:

**DuraLife P3500-1** is a premium, high temperature, extreme pressure, multi-purpose, polyurea thickened grease. It is manufactured with a high quality base oil and multiple types of viscosity index improvers, increasing its "body" and "tackiness" properties. This premium base oil preparation gives the grease a strong and long lasting body with a texture that can stand up to the toughest of applications. After the base oil formula is prepared, the grease is thickened using polyurea.

### BENEFITS:

**DuraLife P3500-1** exhibits excellent thermal stability to extreme high and low temperatures and superior shear stability when compared to typical polyurea greases. **DuraLife P3500-00** has very good water resistance and will not wash out maintaining its consistency under severe working conditions and resisting rust and oxidation.

### PROPERTIES:

	Test Method	DLP3500-1
Color		Green
Thickener Type		Shear Stable, Polyurea
Texture		Smooth
Grease Compatibility		Excellent
NLGI Grade	ASTM D4950	1
Base Oil Viscosity @ 40 °C	ASTM D445	653 cSt
Base Oil Viscosity @ 100 °C	ASTM D445	36.9 cSt
Base Oil Viscosity Index	ASTM D2270	92
US Steel Grease Mobility	USS Method LT37	
@ 0 °F		0.2 g/min
@ 20 °F		1.7 g/min
Dropping Point	ASTM D566	269 °C (517 °F)
Cone Penetration @ 25 °C	ASTM D217	
Unworked		322 dmm
Worked 60 strokes		324 dmm
Worked 10,000 strokes		335 dmm
Worked 100,000 strokes		354 dmm (± 10%)
DI Rust Protection, 48 hr, 52 °C	ASTM D1743	Pass
Oxidation Stability by OPV	ASTM D942	3 psi
Shell Roll Stability, 2 hr, 20-35 °C	ASTM D1831	4.18 % change
Oil Separation	ASTM D1742	0.4 %

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	<b>Test Method</b>	<b>DLP3500-1</b>
EP Properties (Four-Ball Method)	ASTM D2596	
Weld Point		315 kgf
Load-Wear Index		55 kgf
OK Load (Timken Method)	ASTM D2509	55 lb-f
Four-Ball Wear	ASTM D2266	0.45 mm
Low Temperature Torque, 1 min/-40 °C	ASTM D4693	11.2 Nm
High Temperature Torque, 1000 rpm, 160 °C	ASTM D3527	120 h
Combo Testing, % overall change	BSC	2.1

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