

# PRODUCT INFORMATION

A PRODUCT OF AMERICAN CHEMICAL TECHNOLOGIES, INC.



## DuraLife P HS

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

### DESCRIPTION:

**DuraLife P HS** is a premium, high temperature, extreme pressure, multi-purpose, polyurea thickened grease. **DuraLife P HS** is manufactured with a high quality base oil with 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 P HS** exhibits excellent thermal stability to extreme high and low temperatures and superior shear stability when compared to typical polyurea greases. **DuraLife P HS** 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	DLP HS-0	DLP HS-1	DLP HS-2
Appearance		Smooth	Smooth	Smooth
Color		Green	Green	Green
Thickener Type		Polyurea	Polyurea	Polyurea
Thickener Content		6-9 %	6-9 %	6-9 %
NLGI Grade	ASTM D4950	00	1	2
Base Oil Viscosity @ 40 °C	ASTM D445	653 cSt	653 cSt	653 cSt
Base Oil Viscosity @ 100 °C	ASTM D445	36.9 cSt	36.9 cSt	36.9 cSt
Viscosity Index	ASTM D2270	92	92	92
US Steel Grease Mobility	USSMethodLT37		0.2 g/min	
@ 0 °F			1.7 g/min	
@ 20 °F				
Dropping Point	ASTM D566	246 °C (475 °F)	269 °C (517 °F)	260+ °C (500+ °F)
Cone Penetration @ 25 °C	ASTM D217			
Worked 60 strokes		400-430 dmm	324 dmm	265 dmm
Worked 10,000 strokes			335 dmm	
Worked 100,000 strokes			354 dmm	
DI Rust Protection, 48 hr, 52 °C	ASTM D1743	Pass	Pass	Pass
Oxidation Stability by OPV	ASTM D942	3 psi	3 psi	
Shell Roll Stability, 2 hr, 20-35 °C	ASTM D1831		4.18 % change	
Oil separation	ASTM D1742		0.4 %	

	<b>Test Method</b>	<b>DLP HS-0</b>	<b>DLP HS-1</b>	<b>DLP HS-2</b>
EP Properties (Four-Ball Method)	ASTM D2596			
Weld Point		315 kgf	315 kgf	500+ kgf
Load-Wear Index			55 kgf	
OK Load (Timken Method)	ASTM D2509	55 lb-f	55 lb-f	60 lb-f
Four-Ball Wear	ASTM D2266	0.45 mm	0.45 mm	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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