

HYDRO-SYN 70 HYDROSYNTHETIC™ LUBRICATING GREASE

**NLGI GRADE 0, 1 & 2
USDA H2**

Hydro-Syn 70 is designed to provide long lasting protection beyond the capability of conventional greases.

Hydro-Syn 70 is a lithium complex grease formulated with high viscosity index 100% synthetic base fluids. This combination provides excellent low and high temperature capabilities. **Hydro-Syn 70** contains Durox®, Endurium® and Resilium® proprietary additives which offer the latest technology to protect against wear, corrosion and oxidation. **Hydro-Syn 70** resists pound-out, water washout and provides exceptional performance under the most extreme operating conditions.

Hydro-Syn 70 is fortified with organo-metallic additives to provide a strong film of anti-friction; anti-wear and extreme pressure protection between metal surfaces. **Hydro-Syn 70** has excellent pumpability and is extremely shear stable.

Hydro-Syn 70 additive technology plus 100% synthetic base fluids provide the benefits of:

Outstanding Anti-Wear & Extreme Pressure Performance - Endurium®- forms a layer of protection between metal surfaces to eliminate welding and scoring associated with severe shock loading.

Oxidation and Rust & Corrosion Protection - Durox® protects metal surfaces from harmful effects of water, acidity, and other contaminants.

Superior Water Resistance - resists harmful dilution and corrosive effects of water while protecting equipment.

Adhesive/Cohesive - Resilium® provides adhesive and cohesive properties that eliminate sling-off and pound-out under heavy loads.

Exceeds Dana Corporation M-2007J - Spicer Driveshaft Div. Specification Lube-for-Life for Universal Joints

	Load	Environment	Temperature Range	Bearing Speed Range
NLGI No. 2	Severe Shock Loads Severe Static & Dynamic Loads 100,000 PSI	Seals Out Dust & Dirt Acid Resistant Fresh Water Resistant Salt Water Resistant	-25 °F to 500 °F -31 °C to 260 °C	4,000 RPM in 2 inch bearing, up to 8,000 RPM in 1 inch bearing
NLGI No. 1	Severe Shock Loads Severe Static & Dynamic Loads 70,000 PSI	Same as Above Automatic Lubricators	-30 °F to 450 °F -34 °C to 232 °C	5,000 RPM in 2 inch bearing, up to 10,000 RPM in 1 inch bearing
NLGI No. 0	50,000 PSI	Same as Above Automatic Lubricators	-40 °F to 400 °F -40 °C to 205 °C	> 12,000 RPM in 1 inch bearing

TYPICAL APPLICATIONS INCLUDE:

Anti-friction Bearings	Small Open Gears	Chassis Points	Plain Bearings
Disk Brake Wheel Bearings	Pins and Bushings	Couplings	Conveyors
King Pins	Fifth Wheels	Pumps	Fan Bearings
Sliding Surfaces	Electric Motor Bearings	Universal Joints	

HYDRO-SYN 70

HYDROSYNTHETIC LUBRICATING GREASE

TEST DESCRIPTION	ASTM NO.	TYPICAL PROPERTIES		
		0	1	2
NLGI Grade		0	1	2
Penetration worked 77°F(25°C)	D217	365	320	280
Thickener Type		Lithium Complex	Lithium Complex	Lithium Complex
Saybolt Viscosity Base Oil	D2161			
SUS @ 100 °F		1295	1295	1295
SUS @ 210 °F		125	125	125
Kinematic Viscosity Base Oil	D445			
cSt @ 40° C		280	280	280
cSt @ 100° C		27	27	27
Base Oil Viscosity Index	D2270	127	127	127
Dropping Point °F	D2265	500	>550	>580
(°C)		(260)	(>288)	(>304)
Volatile Organic Compounds , % wt	E1868-10			0.58
81°C @ 110 minutes				
Density , lb/gal.	D1298	7.30	7.59	7.49
(gm/cc) @ 60°F(15.5°C)		(0.876)	(0.911)	(0.899)
Four Ball EP				
Weld Point, kg	D2596	315	Greater than 400	Greater than 400
Extreme pressure properties				
1800 rpm/ 77°F (25°C),10 sec				
Timken OK load , lb	D2509	65	75	75
Extreme pressure				
800 rpm/100°F (37.8°C)SOS				
Copper Strip Corrosion	D4048	1a	1a	1a
212°F (100°C)/3 hr				
Rust Test				
A. Distilled Water	D665	Pass	Pass	Pass
24 hr/140°F (60°C)				
B. Synthetic Sea Water		Pass	Pass	Pass
24 hr/140°F (60°C)				
Water Wash-Out				
% loss, max.	D1264	Not	1.6	1.2
600 rpm @ 175 °F(79°C)/ 1 hr.		Determined		
Lincoln Ventmeter Test				
72°F, psi		125	150	300
30°F, psi		150	175	350
0°F, psi		550	575	1000
Color		Purple	Purple	Purple

WARRANTY:

When properly stored and used in accordance with instructions, any material not satisfactory will be replaced with any product in our line on a dollar for dollar basis provided the account is paid in full when due and Hydrotex is notified in writing within 12 months of the date of the order by the customer.

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