

HYPLEX™ HYDROSYNTHETIC™ LUBRICATING GREASE

NLGI GRADE 00, 0, 1 & 2

HYPLEX is a multi-functional grease formulated for a wide range of industrial applications where bearings operate under conditions of high heat, high speed, vibration, moisture, and heavy loads.

HYPLEX a royal blue, non-tackified, lithium complex grease is formulated with the latest additive technology. Hydrotex Durox®, and Endurium® proprietary additives work synergistically with 100% synthetic base stocks to provide outstanding performance under extreme conditions.

HYPLEX is ideal for use in automatic lubrication systems. **HYPLEX** reduces grease consumption and extends re-lubrication cycles. The use of **HYPLEX** provides longer bearing life and reduces the need to stock several greases, thus preventing misapplication.

HYPLEX additive technology plus enhanced synthetic base stocks 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.

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

Adhesive/Cohesive - unique polymeric adhesive and cohesive additive (NLGI Grade 2 only) at just the right amount to allow use in high-speed anti-friction bearing applications.

	Load	Environment	Temperature Range	Bearing Speed Range
NLGI No. 2	Severe Static & Dynamic Loads >100,000 PSI	Seals Out Dust & Dirt Acid Resistant Fresh Water Resistant Salt Water Resistant	-30 °F to 475 °F -35 °C to 245 °C	5,000 RPM in 2 inch bearing, up to 10,000 RPM in 1 inch bearing
NLGI No. 1	Severe Static & Dynamic Loads 70,000 PSI	Same as Above Automatic Lubricators	-35 °F to 425 °F -37 °C to 218 °C	6,000 RPM in 2 inch bearing, up to 12,000 RPM in 1 inch bearing
NLGI No. 0	50,000 PSI	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
Pins and Bushings
Disk Brake Wheel Bearings
Couplings

Chassis Points
Electric Motor Bearings
Fan Bearings
Automatic Lubricators

Plain Bearings
King Pins
Sliding Surfaces
Gear Motors

Fifth Wheels
Pumps
Conveyors
Soot Blowers

HYPLEX™

HYDROSYNTHETIC™ LUBRICATING GREASE

TEST DESCRIPTION	ASTM NO.	TYPICAL PROPERTIES		
		0	1	2
NLGI Grade		0	1	2
Penetration, worked @ 25°C	D217		325	280
Thickener Type		Lithium Complex	Lithium Complex	Lithium Complex
Saybolt Viscosity Base Oil	D2161			
SUS @ 100 °F		1575	1575	1575
SUS @ 210 °F		150	150	150
Kinematic Viscosity Base Oil	D445			
cSt @ 40° C		340	340	340
cSt @ 100° C		32	32	32
Viscosity Index of Base Fluid	D2270	132	132	132
Dropping Point °F	D2265		>550	>575
(°C)			(288)	(302)
Volatile Organic Compounds, %wt	E1868-10			0.82
81°C @ 110 minutes				
Density, lb/gal. @ 60°F	D1298	7.44	7.44	7.34
(gm/cc) @ 15.5°C		(0.893)	(0.893)	(0.881)
Four Ball EP				
Weld Point, kg	D2596	250	315	315
1800 rpm @ 77°F (25°C), 10 sec				
Timken OK load, lb	D2509		75	75
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	NA	1.6	1.3
600 rpm @ 175 °F(79.4°C)/1 hr.				
Lincoln Ventmeter Test				
72°F, psi		175	200	350
30°F, psi		200	225	450
0°F, psi		350	375	750
Texture		Smooth & Buttery	Smooth & Buttery	Slightly Tacky
Color		Royal Blue	Royal Blue	Royal Blue

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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