

HYPLEX™ HYDROSYNTHETIC® LUBRICATING GREASE

HyPlex™ is a multi-functional synthetic grease formulated for a wide range of automotive and industrial applications where bearings operate under conditions of high heat, high speed, vibration, moisture, and heavy loads. **HyPlex** provides longer bearing life and reduces the need to stock several greases, thus preventing misapplication. **HyPlex** exceeds the NLGI GC-LB requirements for use as a multipurpose automotive wheel bearing and chassis lubricant.

TYPICAL APPLICATIONS INCLUDE:

Disk Brake Wheel Bearings	Chassis Points	Plain Bearings	Fifth Wheels
Anti-friction Bearings	Electric Motor Bearings	King Pins	Pumps
Couplings	Fan Bearings	Sliding Surfaces	Conveyors
Gear Motors	Automatic Lubricators		

PRODUCT ATTRIBUTE	TEST METHOD	TYPICAL PROPERTIES				
NLGI Grade	ASTM D217	2	1	0	00	000
Color		Royal Blue				
Thickener Type		Lithium Complex				
NLGI Certification	ASTM D4950	GC-LB	--	--	--	--
ISO Classification	ISO 6743-9	LX-CDIB2	--	--	--	--
DIN Classification	DIN 51825	KPHC2N-30L	--	--	--	--
Low Temperature Limit, °F (°C)		-22 (-30)	-22 (-30)	-22 (-30)	-22 (-30)	-22 (-30)
High Temperature Limit, °F (°C)		302 (150)	--	--	--	--
Worked Penetration, 1/10 th mm	ASTM D217	285	320	365	410	455
Density, kg/l @ 15.5°C		0.891	0.882	0.875	0.865	0.86
Base Oil Viscosity, cSt @ 40°C	ASTM D445	150	150	150	150	150
Base Oil Viscosity, cSt @ 100°C	ASTM D445	18.3	18.3	18.3	18.3	18.3
Base Oil Viscosity Index	ASTM D2270	137	137	137	137	137
4-Ball EP, Weld Point, kgf	ASTM D2596	500	500	500	400	400
4-Ball EP, Load Wear Index	ASTM D2596	75	--	--	--	--
4-Ball Wear, scar diameter, mm	ASTM D2266	0.42	0.42	0.40	0.40	0.40
Low Temp Torque, g·cm @ -30°C	ASTM D1478	--	--	--	--	--
- Startup		2620	--	--	--	--
- Running		481	--	--	--	--
Low Temp Torque, N·m @ -40°C	ASTM D4693	2.09	--	--	--	--
Dropping Point, °F (°C)	ASTM D2265	574 (301)	577 (303)	469 (243)	441 (227)	397 (203)
High Temperature Life, hrs	ASTM D3527	160	--	--	--	--
PDSC Oxidation Induction Time, min @ 185°C and 500 psi O ₂	ASTM D5483	120+	120+	120+	101	89
Copper Corrosion, 24hr @ 100°C	ASTM D4048	1a	1a	1a	1a	1a
Rust Test, Distilled Water	ASTM D1743	Pass	Pass	Pass	Pass	Pass

PRODUCT ATTRIBUTE	TEST METHOD	TYPICAL PROPERTIES				
NLGI Grade	ASTM D217	2	1	0	00	000
Rust Test, Synthetic Sea Water	ASTM D5969	Pass	Pass	Pass	Pass	Pass
EMCOR Rust Test, Distilled Water	ASTM D6138	0	--	--	--	--
EMCOR Rust Test, 100% SSW	ASTM D6138	1	--	--	--	--
Water Wash-Out, % Loss @ 175 °F	ASTM D1264	4.1	--	--	--	--
Oil Separation, % Loss	ASTM D1742	<1	--	--	--	--
Cone Sieve Oil Separation, % Loss @ 150°C	ASTM D6184	<1	--	--	--	--
Tackiness Index, Work/Elongation	Hydrotex	13/6	6/5	--	--	--

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.

Hydrotex® is a manufacturer and distributor of high performance lubricant and fuel improver solutions. As an employee owned company, we help our customers develop sustainable solutions designed to improve system reliability, save energy, limit pollution, extend fixed asset life, reduce maintenance costs and improve fuel efficiency. Our products and services leverage over 80 years of innovation resulting in superior lubrication solutions and high touch customer service.