

HyDiamond™ Fluid 6Kp

Ashless Anti-Wear Hydraulic Fluid

 Lubricants for a Healthier Planet™

HyDiamond™ Fluid 6Kp is a reduced environmental impact fluid designed to lubricate air compressors and hydraulic systems where fluid contact with the environment is possible. HyDiamond Fluid 6Kp uses a phosphorus anti-wear technology that does not contain heavy metals and is inherently biodegradable in accordance with the OECD 301 B Test method. HyDiamond Fluid 6Kp is non-toxic to fish and aquatic species as determined by OECD 203 1-12 Test method. It passes the visual “NO SHEEN” requirement of the U.S. EPA Static Sheen Test.

TYPICAL APPLICATIONS INCLUDE:

Hydraulic System	Air Compressor	Mist Lubrication Systems	Blowers
Oil Bearings	Non-EP Gears	Industrial Turbines	Vacuum Pump

HyDiamond™ Fluid 6Kp is designed for the following industrial specifications:

Dennison HF-0, HF-1, HF-2	Vickers I-286S, M-2950-S	Commercial Hydraulics
AFNOR NFE 8-603	AFNOR NFE 48-690 (Dry)	AFNOR NFE 48-691 (Wet)
B.F. Goodrich 0152	Ford M-6C32	Jeffrey No. 87
MIL-H-17672D	DIN 51524, Part 2	Lee Norse 100-1
U.S. Steel 127, 136	GM LH-04-1, LH-06-1, LH-15-1	Cincinnati Milacron:P-68, P-69, P-70
JOY HO-T, HO-S, HO-T2	Sundstrand HMS-103	Eaton EH-1027C
Bosch Fluid Power	Commercial Intertech	Continental Hydraulics
Cross Manufacturing	Dynex/Rivett	Geartek
Haldex Barnes	Hartman Controls, Inc.	HAWE Hydraulics
Hydro-Gear	Kawasaki USA	KYB America LLC
Mannesmann Rexroth	North American Hydraulics	Oilgear
Parker Hannifin	Poclain Hydraulics	Rineer
Rotary Power	Sauer-Danfoss	Textron/David Brown
Tuff Torq	Von Ruden	White Hydraulics

PRODUCT ATTRIBUTE	TEST METHOD	TYPICAL PROPERTIES			
ISO Grade	ASTM D2422	15	22	32	46
Kinematic Viscosity, cSt @ 40°C	ASTM D445	15	22	32	46
Kinematic Viscosity, cSt @ 100°C	ASTM D445	3.54	4.40	5.5	7.0
Viscosity Index No.	ASTM D2270	101	101	106	104
Density, kg/L @ 60 °F	ASTM D1298	0.863	0.864	0.868	0.870
Density, Lb/gal. @ 60 °F	ASTM D1298	7.19	7.20	7.23	7.25
Pour Point, °F (°C)	ASTM D97	-45 (-42.8)	-30 (-34.4)	-25 (-31.6)	-20 (-28.8)
Flash Point, °F (°C)	ASTM D92	300 (148.9)	360 (182)	400 (204)	420 (215)
VOC, wt%, 110 min @ 81°C	ASTM E1868-10	0.39	0.35	0.15	0.15
Rust Test, Distilled Water	ASTM D665	Pass	Pass	Pass	Pass
Rust Test, Syn. Sea Water	ASTM D665	Pass	Pass	Pass	Pass
Foaming Test, Sequence I, II, III	ASTM D892	Pass	Pass	Pass	Pass
Oxidation Stability, 1 Hr & 120°C	ASTM D943	>8,000	>8,000	>8,000	>8,000
Dielectric Breakdown Voltage	ASTM D877	40 KV	40 KV	40 KV	40 KV
Alemite Mist Oil Test, ANSI 86 Standard	ASTM D3705	Pass	Pass	Pass	Pass
Copper Corrosion, 24 hr @ 100°C	ASTM D130	1a	1a	1a	1a
Color		Light Amber	Light Amber	Light Amber	Light Amber

PRODUCT ATTRIBUTE	TEST METHOD	TYPICAL PROPERTIES		
ISO Grade	ASTM D2422	68	100	150
Kinematic Viscosity, cSt @ 40°C	ASTM D445	68	100	150
Kinematic Viscosity, cSt @ 100°C	ASTM D445	8.8	11.3	14.8
Viscosity Index No.	ASTM D2270	102	100	97
Density, kg/L @ 60 °F	ASTM D1298	0.874	0.879	0.882
Density, Lb/gal. @ 60 °F	ASTM D1298	7.28	7.32	7.35
Pour Point, °F (°C)	ASTM D97	-20 (-20.8)	-10 (-23.3)	-5 (-20)
Flash Point, °F (°C)	ASTM D92	435 (224)	450 (232)	460 (238)
VOC, wt%, 110 min @ 81°C	ASTM E1868-10	0.15	0.17	0.36
Rust Test, Distilled Water	ASTM D665	Pass	Pass	Pass
Rust Test, Syn. Sea Water	ASTM D665	Pass	Pass	Pass
Foaming Test, Sequence I, II, III	ASTM D892	Pass	Pass	Pass
Oxidation Stability, 1 Hr & 120°C	ASTM D943	>8,000	>8,000	>8,000
Dielectric Breakdown Voltage	ASTM D877	40 KV	40 KV	40 KV
Alemite Mist Oil Test, ANSI 86 Standard	ASTM D3705	Pass	Pass	-
Copper Corrosion, 24 hr @ 100°C	ASTM D130	1a	1a	1a
Color		Light Amber	Light Amber	Light Amber

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 75 years of innovation resulting in superior lubrication solutions and high touch customer service.