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Klüber Lubrication NA LP • 9010 County Road 2120, Tyler TX • +1 903 534 8021 • info@klsummit.com

Product Data Sheet



NOTE: The information in this publication is the result of careful testing in our laboratories, complemented by selected literature. It does not in any way constitute a guarantee, nor does it serve as a license to operate any patent. Due to widely varying conditions of product use, which are beyond our control, it is strongly recommended that the product be tested for suitability. Product typical properties in this publication are current.

SYNTHETIC HYDRAULIC OIL

HySyn® FGE Series

Summit HySyn® FGE Series are zinc-free ashless hydraulic oils formulated for use in hydraulic systems found in the Food & Beverage Industry (H1) usually in processing, beverage, and packaging lines. HySyn® FGE Series oils are fully synthetic and are produced in an ISO 21469 Certified Facility. They also carry Kosher Approval and Halal Certification.

HySyn® FGE Series oils have been designed to offer the absolute best solubility that can be found in a food grade hydraulic fluid. The enhanced solubility allows hydraulic systems to operate cleaner by reducing sludge formation from contaminants being ingested into the oil. This solubility lets valves, actuators, pumps, and other key components of a hydraulic system operate smoothly with no jerking or slowed travel of valves. HySyn® FGE Series oils are zinc-free ashless oils that are compatible with seal materials used in hydraulic systems. Excellent wear and anti-corrosion properties are also important characteristics of this series.

Physical Properties

PRODUCTS	15	22	32	46	68	100
ISO Grade	15	22	32	46	68	100
Viscosity						
@ 40°C, cSt	14.5	21.4	30.9	45.7	67.4	102.7
@ 100°C, cSt	3.5	4.5	5.6	7.8	10.4	14.3
Viscosity Index	121	124	121	140	141	143
Specific Gravity	0.835	0.840	0.846	0.851	0.854	0.858
Flash Point, °F (°C)	390 (199)	424 (218)	469 (243)	514 (268)	519 (271)	489 (254)
Fire Point, °F (°C)	455 (235)	494 (257)	550 (288)	564 (296)	564 (269)	559 (293)
Pour Point, °F (°C)	-77 (-61)	-79 (-62)	-65 (-54)	-41 (-41)	-43 (-42)	-47 (-44)
4-Ball Wear (mm scar)	0.34	0.34	0.34	0.36	0.33	0.32
Water Separation ml oil / ml water / ml emulsion	40/40/0 (5 min)	40/40/0 (10 min)	40/40/0 (10 min)	40/40/0 (10 min)	40/40/0 (15 min)	40/40/0 (10 min)
Rust	Pass	Pass	Pass	Pass	Pass	Pass
Copper Corrosion	1A	1A	1A	1A	1A	1A
NSF Registered	H1	H1	H1	H1	H1	H1
Halal Certified	Yes	Yes	Yes	Yes	Yes	Yes
Kosher Certified	Yes	Yes	Yes	Yes	Yes	Yes

Shelf Life: Product shelf life is 3 years from the date of manufacture, after which the product should be recertified prior to use.