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Klüber Lubrication NA LP • P.O. Box 131359 • Tyler, CR 2120, Texas 75713, Phone 903.534.8021 • Fax 903.581.4376

# 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

### HYSYN FG SERIES

*Summit HySyn FG Series hydraulic oils are formulated specially for hydraulic systems operating in the food service, beverage, and packaging industry. These fully synthetic lubricants are NSF Registered and meet USDA 1998 (H-1) guidelines (lubricants with incidental food contact). HySyn FG Series lubricants are Kosher/Halal certified. Summit is an ISO 21469 certified facility.*

HySyn FG lubricants are fortified with oxidation inhibitors, corrosion inhibitors, as well as anti-wear additives to enhance the superior qualities offered by the synthetic hydrocarbon base stock. They are extended life lubricants and have the same excellent software compatibility as the Summit HySyn Series hydraulic oils.

### Physical Properties

PRODUCTS	FG-15	FG-22	FG-32	FG-46	FG-68	FG-100
ISO Grade	15	22	32	46	68	100
Viscosity						
@ 40°C, cSt	15.0	21.7	30.7	46.8	68.4	99.3
@ 100°C, cSt	3.58	4.56	5.80	7.79	10.4	13.9
@ 100°F, SUS	82	113	157	238	350	510
@ 210°F, SUS	38.3	41.6	45.7	52.3	61.5	74.9
Viscosity Index	122	127	134	135	139	141
Flash Point, °F	385	450	460	490	505	515
(°C)	(196)	(232)	(238)	(254)	(263)	(268)
Fire Point, °F	440	495	525	565	565	585
(°C)	(227)	(257)	(274)	(296)	(296)	(307)
Pour Point, °F	-103	-94	-81	-71	-65	-60
(°C)	(-75)	(-70)	(-63)	(-57)	(-54)	(-51)
Emulsion Tendency	40/40/0 10 Mins	40/40/0 10 Mins	40/40/0 10 Mins	40/40/0 10 Mins	40/40/0 10 Mins	40/40/0 10 Mins
Specific Gravity	0.816	0.821	0.830	0.834	0.838	0.841
NSF Registered	H1	H1	H1	H1	H1	H1
ISO 21469	Yes	-	Yes	Yes	Yes	Yes
Kosher Approved	Yes	Yes	Yes	Yes	Yes	Yes
Halal Certified	Yes	Yes	Yes	Yes	Yes	Yes

**Percent By Weight**    Phosphorous    0.0695                      Sulfur                      0.047

**HySyn FG-46** does not produce an iridescent appearance (sheen) on the surface of the water when tested in accordance with the U.S. Coast Guard Static Sheen Test.

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