

March 24, 2009

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# 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 as of March 24, 2009.

## SYNTHETIC BLEND FOOD GRADE HYDRAULIC

### HYPAR FG SERIES

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

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

### Physical Properties

HYPAR FG	FG-22	FG-32	FG-46	FG-68	FG-100
ISO Grade	22	32	46	68	100
Viscosity					
@ 40°C, cSt	22.3	32.0	42.0	68.0	97.2
@ 100°C, cSt	4.30	5.38	6.41	8.76	11.14
@ 100°F, SUS	116.7	165.4	216.0	352.0	505.0
@ 210°F, SUS	40.7	44.3	47.7	55.8	64.4
Viscosity Index	96	101	101	101	100
Flash Point, °F	405	445	445	450	445
(°C)	(207)	(230)	(230)	(232)	(230)
Fire Point, °F	440	475	475	480	475
(°C)	(227)	(246)	(246)	(249)	(246)
Pour Point, °F	5	5	5	5	-5.8
(°C)	(-15)	(-15)	(-15)	(-15)	(-21)
Specific Gravity	0.860	0.865	0.868	0.870	0.873
Emulsion Tendency	40/40/0 40/40/0	40/40/0 40/40/0	40/40/0 10 Mins	40/40/0 10 Mins	40/40/0 10 Mins
NSF Registered	H1	H1	H1	H1	H1
ISO 21469	Yes	Yes	Yes	Yes	Yes
Kosher	Pending	Yes	Yes	Yes	Yes
Halal	Pending	Pending	Pending	Pending	Pending
CFIA	Pending	Yes	Yes	Yes	Yes

**HyPar FG** 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.

**Percent By Weight** Phosphorous.....0.0695      Sulfur.....0.047

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