

August 19, 2010

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 as of August 19, 2010.

SYNTHETIC GEARS / BEARINGS

SYNGEAR® Food Grade PG SERIES

Summit Syngear® Food Grade PG Series synthetic lubricants are polyglycol-based products for use in enclosed gear, bearings, and compressors where conditions demand the unique properties of these fluids. Use these lubricants where there is the potential for incidental contact with food or food packaging. Better wear protection, thermal and oxidation stability, and reduced sludge and deposit formation insure enhanced performance when compared with petroleum-based lubricants. These lubricants are NSF Registered and meet USDA 1998 (H1) guidelines (lubricants with incidental food contact) for use in food plants. Summit is an ISO 21469 certified facility. Do not add directly to food.

Syngear® Food Grade PG Series lubricants are incompatible with other oils. Care should be taken to prevent the two types of fluids from being mixed.

Physical Properties

SYNGEAR®	PG-150F	PG-220F	PG-320F	PG-460F	PG-680F
ISO Grade	150	220	320	460	680
Viscosity					
@ 40°C, cSt	143	224	319	442	650.3
@ 100°C, cSt	27.2	41.3	57.0	78.1	110.6
@ 100°F, SUS	718	1135	1607	2224	3290
@ 210°F, SUS	133	199	273	374	530
Viscosity Index	229	238	247	259	268
Specific Gravity	1.048	1.055	1.058	1.060	1.061
Flash Point, °F (°C)	525 (270)	505 (263)	510 (266)	515 (268)	525 (274)
Pour Point, °F (°C)	-49 (-45)	-49 (-45)	-44 (-42)	-44 (-42)	-44 (-42)
FZG Gear Test	12+ Pass	12+ Pass	12+ Pass	12+ Pass	12+ Pass
NSF Registered	H1	H1	H1	H1	H1
ISO 21469	Yes	Yes	Yes	Yes	Yes
CFIA	Yes	Yes	Yes	Yes	Yes

Thermal Characteristics:

Specific Heat

Cal/g-°C
60°C = 0.48
80°C = 0.49
100°C = 0.51

Thermal Conductivity

BTU/Hr/(Ft °F)
100°F = 0.095
200°F = 0.090

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