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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 December 15, 2010.

SYNTHETIC GEARS / BEARINGS

SYNGEAR® PG SERIES

Summit Syngear® 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. Better wear protection, thermal and oxidation stability, and reduced sludge and deposit formation insure enhanced performance when compared to petroleum-based lubricants.

Syngear® PG Series lubricants are incompatible with petroleum oils. Care should be taken to make sure the two types of fluids are not mixed.

Physical Properties

SYNGEAR®	PG-220	PG-320	PG-460	PG-680	PG-1000
ISO Grade	220	320	460	680	1000
Viscosity					
@ 40°C, cSt	237	314	441	654	1000
@ 100°C, cSt	42.9	55.7	76.6	111	162.0
@ 100°F, SUS	1191	1580	2224	3312	5072
@ 210°F, SUS	206	266	366	532	774
Viscosity Index	238	245	255	268	280
Specific Gravity	1.052	1.054	1.056	1.057	1.056
Flash Point, °F (°C)	510 (266)	520 (271)	530 (277)	525 (274)	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

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