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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 November 14, 2007.

SYNTHETIC BASED LUBRICATING GREASE

SumTech SG Series

SumTech SG Series lubricating greases are heavy-duty multipurpose lubricating greases with development emphasis on long-term and lifetime lubrication of rolling element bearings under moderate to high load. The special lithium complex soap thickener and synthetic hydrocarbon base oil are proven components for high temperature operation. Special anti-oxidant blended additives provide oxidation stability at both low and high temperatures. Synergistic corrosion inhibitors offer protection for both ferrous and yellow metals which are commonly used in today's rolling element bearings.

Products	SG-100	SG-220	SG-460
Color	Beige	Beige	Beige
Texture	Homogenous	Homogenous	Homogenous
Base Oil - <i>ASTM D 446</i>	Synthetic hydrocarbon	Synthetic hydrocarbon	Synthetic hydrocarbon
Viscosity at 40°C cSt	Approx 103	Approx 226	Approx 470
Viscosity at 100°C cSt	Approx 15	Approx 26	Approx 45
Viscosity Index	Approx 150	Approx 146	Approx 150
Thickener Type	Lithium complex soap	Lithium complex soap	Lithium complex soap
Density at 20°C g/cm ³	0.870	0.870	0.870
Service Temperature	-40°F to 285°F -40°C to 140°C	-22°F to 285°F -35°C to 140°C	-31°F to 302°F -30°C to 150°C
NLGI Grade	2	2	1.5
Drop Point - <i>ASTM D 2265</i>	Approx 280°C	Approx 280°C	Approx 280°C
Penetration			
Worked 60 ds	280 1/10 mm	280 1/10 mm	300 1/10 mm
Prolong worked 100,000 ds <i>ASTM D 217</i>	310 1/10 mm	310 1/10 mm	330 1/10 mm
Oil Separation - <i>ASTM D6184</i>	< 3%	< 3%	< 4%
4-Ball Wear - <i>ASTM D 2266</i>	0.47mm, 0.47mm	0.57mm, 0.52mm	0.55mm, 0.58mm
4-Ball Load Wear Index	43	50	54
Last non seizure load	63-kg (0.31mm)	80-kg (0.39mm)	100-kg (0.43mm)
Last seizure load	250-kg (2.12mm)	250-kg (2.02mm)	250-kg (2.11mm)
Weld load, kg <i>ASTM D 2596</i>	315	315	315
Corrosion Preventative Properties - <i>ASTM D 1743</i>	Pass	Pass	Pass
Corrosion Preventative Properties EMCOR <i>ASTM D 6138</i>	0/0	0/0	0/0
Copper Corrosion <i>ASTM D 4048</i>	1b	1b	1b
Timken OK Load, lbs <i>ASTM D 2509</i>	70	65	75