

# KOMATSU®

## Product data

### Forestry Quality™

# HSG

*Grease especially for high speed applications*

- Excellent low temperature performance
- Very good mechanical stability
- Good corrosion protection
- Suitable for high speed applications

**HSG is a lithium complex thickened lubricating grease based on synthetic oil. The grease contains antioxidants, corrosion inhibitors and EP/AW additives based on bismuth technology. The special low viscous synthetic oil gives the product very low starting and running torques making it suitable for low temperature applications. The grease is also suitable for bearings operating at high speed. The specially developed bismuth additive package gives the grease a very high load carrying capacity and excellent wear protection. HSG is a modern high performance synthetic product suitable for both industrial and automotive applications and in modern centralized lubrications systems operating at low temperatures. The grease is suitable for use down to -55°C.**

#### TYPICAL TECHNICAL DATA

Thickener		Lithium Complex
Base oil		Synthetic oil
Color	Visual	Beige
NLGI Grade	ASTM D217	2
Dropping point	IP 396	>260°C
Base oil viscosity at 40°C	ISO 12058	44 mm <sup>2</sup> /s
Base oil viscosity at 100°C	ISO 12058	8 mm <sup>2</sup> /s
4-ball weld load	DIN 51350:4	3800 N
Temperature range		-55°C to +140°C Max +180°C

#### Mechanical stability

Penetration 60 strokes	ISO 2137	265-295
Penetration 100.000 strokes	ISO 2137	+30
Shell roll stability 50h/80°C	ASDM D1831mod	+45

#### Corrosion protection

SKF Emscor distilled water	ISO 11007mod	0-1
SKF Emscor salt water	ISO 11007mod	2-3
Copper corrosion 24h/100°C	ASTM D4048	1b

#### Water stability

Water resistance	DIN 51807/1	1-90
Water washout 1h at 80°C	ISO 11009	4%

#### Lubrication ability

SKF R2F test A	SKF	Pass
SKF R2F test B at 140°C	SKF	Pass

#### Anti-wear properties

4-ball wear scar (1h at 400N)	DIN 51350:5	0.6 mm
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#### Others

Approx. density at 20°C	IPPM-CS/03s	0.87
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## KOMATSU®

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