



Longtime HS 1.5

High Speed Spindle Bearing Grease

Description

Castrol Longtime™ HS 1.5 is a synthetic high performance grease based on novel thickener-technology. It has excellent mechanical and shear stability and extraordinary resistance against water and humidity as well as metalworking fluid emulsions.

Application

- Lubrication of extreme fast running roller and slide bearings (spindle-bearings).
- For long-term and lifetime lubrication in high speed bearings even under difficult operating conditions.
- For Bearing-lubrication even under strong influence of emulsions or water.
- Temperature application range: - 40°C to + 120°C.

Advantages

- Excellent mechanical and shear stability.
- Extraordinary resistance against water and metalworking fluid emulsions.
- Decreased grease consumption and longer bearing lifetime.
- Extraordinary corrosion-protection even under the influence of emulsions.
- Extraordinary stable grease consistency even under the influence of emulsions.
- Improved machine availability due to extended grease intervals and reduced downtime.
- Very high wear protection.

Typical Characteristics

Name	Method	Units	Longtime HS 1.5
Appearance, Visual	Visual	-	Off-White/Yellow Grease
Thickener Type	-	-	Polymer
Base Oil Type	-	-	PAO
NLGI Grade	-	-	1.5
Worked Penetration, 60 Strokes @ 25°C/77°F	ISO 2137/ ASTM D217	0.1mm	310
Dropping Point	ISO 2176/ ASTM D2265	°C/°F	>155/>310
Base Oil Viscosity @ 40°C/104°F	ISO 3104/ ASTM D 445	mm ² /s	46
Base Oil Viscosity @ 100°C/212°F	ISO 3104/ ASTM D 445	mm ² /s	8
Water Resistance, 90°C/194°F, 3h	DIN 51807-1	Rating	0
Flow Pressure at -40°C/-40°F	DIN 51805	hPa	<1500
FE9 at 120 °C, 6000 rpm, 1.5KN	DIN 51821	hours	1350
Speed Factor (n x dm), (mm x min ⁻¹), approx	DIN 51502	-	1,400,000

Subject to usual manufacturing tolerances.

Additional Information

Speed Factors are to be used as a guide depending on the type and size of the rolling bearing and the operating conditions.

Longtime HS 1.5 is compatible with all other thickening systems, however to realise the full benefits all previous grease should be removed.

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