

**Product Data****Tribol™ GR HS 1.5**

High Speed Spindle Bearing Grease

**Description**

Castrol Tribol™ GR HS 1.5 (previously called 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      | Tribol GR HS 1.5        |
|-----------------------------------------------|-----------------------|------------|-------------------------|
| Appearance                                    | Visual                | -          | Off-White/Yellow Grease |
| Thickener Type                                | -                     | -          | Polymer                 |
| Base oil                                      | -                     | -          | PAO                     |
| Consistency                                   | ASTM D217 / ISO 2137  | NLGI Grade | 1.5                     |
| Worked Penetration (60 strokes @ 25 °C/77 °F) | ASTM D217 / ISO 2137  | 0.1mm      | 310                     |
| Dropping Point                                | ASTM D566 / ISO 2176  | °C/°F      | >155 / >310             |
| Base Oil Viscosity @ 40 °C/104 °F             | ASTM D 445 / ISO 3104 | mm²/s      | 46                      |
| Base Oil Viscosity @ 100 °C/212 °F            | ASTM D 445 / ISO 3104 | mm²/s      | 8                       |
| Water resistance                              | DIN 51807-1           | Rating     | 0                       |
| Flow Pressure @ -40 °C/-40 °F                 | DIN 51805             | hPa        | <1500                   |
| FE9 Bearing Life test - A/1500/6000-120       | DIN 51821-2           | Pass       | Pass                    |
| Speed Factor                                  | -                     | mm / min-1 | 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.  
Tribol GR HS 1.5 is compatible with all other thickening systems, however to realise the full benefits all previous grease should be removed.  
**This product was previously called Longtime HS 1.5. The name was changed in 2015**

Tribol™ GR HS 1.5  
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