



GSV 791

WHITE HEAVY DUTY GREASE

smartGLEIT GSV 791 is a latest generation white high performance grease, based on a special lithium-complex-soap, synthetic oil and a combination of synergistic, microWHITE solid lubricants.

Product Features

The concentration and particle size of the solid lubricants is adjusted so that smartGLEIT GSV 791 can be used like a normal heavy duty grease. However, the special properties of the micro-WHITE solid lubricants concerning load carrying capacity, wear prevention and protection against vibrational wear, are fully present.

- Light coloured and thus clean in application and use
- Very high load carrying capacity
- Constant, low friction values
- Very high level of protection against fretting corrosion
- High pressure resistance, even with shock loads, safe against adhesive wear
- Good corrosion protection and high water resistance
- High aging resistance – Long service life
- Also suitable for use with non-ferrous metals
- No hazard labelling required according CLP/ GHS regulations EG No. 1272/2008

Applications - Examples

- smartGLEIT GSV 791 is always recommended when standard grease are not meeting the requirements. That's especially true for oscillating loads, for shock loads, at risk of vibrational wear or simply for long lubrication intervals.
- Typical Applications:
 - Rolling bearings, all types, especially under oscillation loads
 - Sliding bearings, (also for non-ferrous metal bearings)
 - Linear bushings, especially operated with short strokes
 - Small gears
 - Spindel drives (actuators, hoisting equipments)
 - Joints (all types)
 - In common good compatibility with plastics and elastomers - check before use
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Instructions For Use

- smartGLEIT GSV 791 can be applied by means of grease guns, automatic dosing equipment (suited for pasty products with solids content) and also manually by spatula, lint-free cloth, brushes or the like.
- Clean surfaces before application.
- Do not mix with lubricants of different oil base or check compatibility upfront application!
- When using on faster-running roller bearings, do not fully grease the free space in the bearing. Slow running bearings can be fully greased.
- Before using the product in serial/practical applications, customer's tests to ensure that the product is meeting all requirements for the intended end use, have to be performed.

Typical Properties – smartGLEIT GSV 791

| TEST/FEATURE | STANDARD/PARAMETER | UNIT | GSV 791 |
|---|------------------------------|--|---|
| Identification | DIN 51502 | — | KPLF N-40 |
| Colour | | — | white |
| Base Oil | | — | synthetic oil |
| Viscosity @ 40 °C / 104 °F | DIN 51805 | mm ² /s | 100 |
| Thickener | | — | lithium-complex Soap |
| Drop Point | DIN ISO 2176 | °C / °F | > 240 / 464 |
| Solids-Content | — | Weight-% | < 10 |
| Service Temperature | | ° C/°F | -40 to 140/ -40 to 284 |
| Density | DIN 51757 | g/cm ³ | 0,97 |
| NLGI Class | DIN 51818 | — | 2 |
| EMCOR | DIN 51802 | — | 0/0 |
| Water Resistance | DIN 51807 | — | 0 - 90 |
| Brugger Value | DIN 51347 | MPa | > 190 |
| SNR Prüfung (FAG 51206) | RT – 8 kN – 3° – 25 Hz – 24h | Δm [mg] | 0 |
| SRV (DIN 51834) | 200 N – 50Hz – 50 °C | s=140 μm | 0.12 |
| | 200 N – 50Hz – 50 °C | s=120 μm | 0.12 |
| Friction Value μ Disk/Ball 100Cr6 Test Time each 60 min | 200 N – 25Hz – 50 °C | s=250 μm | 0.12 |
| | 200 N – 5Hz – 50 °C | s=5 mm | 0.12 |
| Parameter: F (N) – f (Hz) – T (°C / °F) Stroke = S | 100 N – 50Hz – 80 °C | s=120 μm | 0.12 |
| | 100 N – 50Hz – 100 °C | s=140 μm | 0.11 |
| | 100 N – 50Hz – 120 °C | s=140 μm | 0.11 |
| | 100 N – 50Hz – 140 °C | s=140 μm | 0.1 |
| Minimum Usable Life | | months | 36 |
| Available Packaging | | 250 g 400 g 1 kg 5 /25/200 kg | can - 12 per box cartridge –20 per box can – 6 per box Plastic Pail / Steel-Drum |
| Handling Precautions | | | see SDS |