



# GSV 790

## WHITE HEAVY DUTY GREASE

smartGLEIT GSV 790 is a latest generation white high performance grease, based on a special lithium soap, mineral 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 790 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 ageing resistance – Long service life
- Also suitable for use with non-ferrous metals
- No hazard labelling required

### Instructions For Use

- smartGLEIT GSV 790 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.
- 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.

### Applications - Examples

- smartGLEIT GSV 790 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
  - Sliding bearings, (also for non-ferrous metal bearings)
  - Linear guides, slideways, guideways
  - Small gears (gear drives for blinds or antenna)
  - Spindel drives (actuators, hoisting equipments)
  - Keyed connections
  - Joints (all types)
  - Tow couplings, king pins
  - ....

## Typical Properties – smartGLEIT GSV 790

TEST/FEATURE	STANDARD/PARAMETER	UNIT	GSV 790
Identification	DIN 51502	—	KPLF K-20
Colour		—	light brown
Base Oil		—	mineral oil
Viscosity @ 40 °C / 104 °F	DIN 51805	mm <sup>2</sup> /s	135
Thickener		—	Lithium-Soap
Drop Point	DIN ISO 2176	°C / °F	> 180 / 356
Solids-Content	—	Weight-%	<10
Service Temperature		° C/°F	-25 to 130/ -13 to 266
Density	DIN 51757	g/cm <sup>3</sup>	0,97
NLGI Class	DIN 51818	—	2
EMCOR	DIN 51802	—	0/0
Water Resistance	DIN 51807	—	0 - 90
Brugger Value	DIN 51347	MPa	270
SNR Prüfung (FAG 51206)	RT – 8 kN – 3° – 25 Hz – 24h	Δm [mg]	24
SRV (DIN 51834)	200 N – 50Hz – 50 °C / 122 °F	s=140 μm	0.12
	200 N – 50Hz – 50 °C / 122 °F	s=120 μm	0.12
Friction Value μ Disk/Ball 100Cr6 Test Time each 60 min	200 N – 50Hz – 50 °C / 122 °F	s=250 μm	0.12
	200 N – 50Hz – 50 °C / 122 °F	s=5 mm	0.12
Parameter: F (N) – f (Hz) – T (°C / °F) Stroke = S	100 N – 50Hz – 80 °C / 176 °F	s=120 μm	0.12
	100 N – 50Hz – 100 °C / 212 °F	s=140 μm	0.12
	100 N – 50Hz – 120 °C / 248 °F	s=140 μm	0.12 – R <sub>0</sub> =0,40Ω
	100 N – 50Hz – 140 °C / 284 °F	s=140 μm	—
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