



Optitemp PG 1.5

High Performance Grease

Description

Castrol Optitemp™ PG 1.5 is a fully synthetic lithium thickened grease with a polyglycol base fluid. It is designed for lifetime lubrication of elastomers and plastic components.

Application

Optitemp PG 1.5 is designed for the lifetime/extended lubrication of steel/plastic or plastic/plastic components. It is used as an assembly aid in vehicle manufacturing in the armature area, to lubricate sliding surfaces and has good noise damping. Optitemp has excellent compatibility with EPDM, and can be used as an oil seal (Simmerringen). Operating temperature ranges from -40 °C to +140 °C.

Advantages

- Silicone free which avoids paint compatibility issues (described as "fish-eyes").
- Compatible with many plastics and elastomers (e.g. EPDM), can be used with a wide range of components.
- Aging/shear resistance which leads to longer operating life.
- Adhesive with good water stability means lubricant does not wash out.
- Good sealing properties.

Typical Characteristics

Name	Method	Units	Optitemp PG 1.5
Appearance	Visual	-	beige grease
Thickener type	-	-	lithium - complex
Base oil	-	-	polyglycol
Consistency	ISO 2137 / ASTM D217	NLGI Grade	1.5
Density @ 20°C / 68°F	ASTM D4052	kg/m ³	1000
Worked Penetration (60 strokes @ 25°C / 77°F)	ISO 2137 / ASTM D217	0.1 mm	300
Dropping point	ISO 2176 / ASTM D566	°C/°F	>220/>428
Base Oil Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm ² /s	220
Base Oil Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D445	mm ² /s	40
Viscosity Index	ISO 2909 / ASTM D2270	-	220
Oil Separation (24 hrs @ 100°C / 212°F)	IP 121 / DIN 51817	% wt	5
Flow pressure @ -35°C / -31°F	DIN 51805	mBar	300
DIN Classification	DIN 51502	-	MPG1.5N-40

Subject to usual manufacturing tolerances.

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