



Optitemp™ FLF 1N

Grease for Starter Motors

Description

Castrol Optitemp™ FLF 1N (previously called Optisil™ FLF 1 N) is a lithium thickened silicone grease, specially developed for use over a wide temperature range, with good antiwear properties and high resistance to oxidation and moisture.

Application

Optitemp FLF 1N grease has been designed for the lubrication of over-running clutch in starter motors.

Advantages

- Can be used to lubricate various size and designs of over-running clutches.
- Good antiwear performance increasing service life of parts.
- Wide temperature service range providing lubrication even in extreme climates.
- Excellent oxidation and moisture resistance producing long lubricant life.

Typical Characteristics

Name	Method	Units	Optitemp FLF 1N
Appearance	Visual	-	Beige
Thickener Type	-	-	Lithium
Base Oil	-	-	Silicone
Consistency	ISO 2137/ASTM D217	NLGI Grade	1
Density @ 20 °C/68 °F	IP 530	kg/m ³	1040
Worked Penetration (60 strokes @ 25 °C/77 °F)	ISO 2137/ASTM D217	0.1 mm	320
Dropping Point	ISO 2176/ASTM D566	°C/°F	>250/>482
Base Oil Viscosity @ 40 °C/104 °F	ISO 3104/ASTM D445	mm ² /s	75
Base Oil Viscosity @ 100 °C/212 °F	ISO 3104/ASTM D445	mm ² /s	28
Oil Separation (168 hrs @ 40 °C/104 °F)	IP 121/DIN 51817	%wt	4
Flow pressure @ -40 °C/-40 °F	DIN 51805	hPa	350
DIN Classification	DIN 51502	-	MS1PFP-40

Subject to usual manufacturing tolerances.

This product was previously called Optisil FLF 1 N. The name was changed in 2015

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Castrol Industrial, Technology Centre , Whitchurch Hill , Pangbourne , Reading , RG8 7QR , United Kingdom

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