

Optileb GR 9830

High-temperature grease

Description

CASTROL OPTILEB™ GR 9830 (previously named Molub-Alloy™ Foodproof 9830) is a special high-temperature grease formulated from a synthetic oil and solid lubricants, developed for the lubrication of rolling and sliding bearings. This blend provides for excellent wear protection, increased service life and extended relubrication intervals at the same time. The grease is excellently suited for high-temperature applications in the food and beverage industries where minimum lubricant consumption, drip-free lubrication and physiological safety are required. It can also be used as a safety sliding agent for oxygen installations.

Application

- Especially suited for applications in baking and drying ovens in the food and canning industries.
- Due to its low volatility, is also suited for vacuum applications, e.g. coating installations.
- May be used in continuous service up to 250°C and be exposed to temperatures up to 280°C for short-time applications.

Advantages

- Aging resistance at high temperatures
- Thermal and chemical stability
- Resistant to most solvents, even chlorinated hydrocarbons, strong acids, alkalis and oxidizing agents, e.g.: acetone, benzene, benzol, boron trifluoride, bromine, chlorine, chlorobenzene, cyclohexane, dioxan, natural gas, ethylene acetate, fluorine, halogens, potassium hydroxide, methylene chloride, methyl formiate, sodium hydroxide, perchloro-ethylene, petroleum ether, hydrochloric and sulphuric acid, tetrahydrofurane, toluol, 1.1.1. trichlorethane, trichlorethylene, xylol
- Excellent lubricating properties – as measured by standard laboratory tests and extensive field evaluations
Extended relubrication intervals without undue risk of lubricant starvation or increased lubricant consumption
Below 280°C the lubricant resists the thickening and hardening which is typical of mineral oil products in high-temperature applications
- Minimum consumption, economic application and clean operating conditions
- Compatible with the following sealing materials: NBR, EPDM, NR, MWQ, PVMQ, PA, PE, PUR, PTFE
- Physiologically safe; approval by LGA (Bavaria)

Typical Characteristics

Name	Method	Units	Optileb GR 9830
Colour	Visual	-	White
Density @ 15°C / 59°F	ASTM D4052 / ISO 12185	kg/m ³	1930
Worked Penetration (60 strokes @ 25°C / 77°F)	ASTM D217 / ISO 2137	0.1 mm	265-295
Thickener type	-	-	PTFE
Base Oil Viscosity @ 40°C / 104°F	ASTM D445 / ISO 3104	mm ² /s	510
Base Oil Viscosity @ 100°C / 212°F	ASTM D445 / ISO 3104	mm ² /s	46
Base Oil Viscosity @ 200°C / 392°F	ASTM D445 / ISO 3104	mm ² /s	6.5
Viscosity Index	ASTM D2270 / ISO 2909	-	135
Flash Point - open cup method	ASTM D92 / ISO 2592	°C/°F	non-flammable
Pour Point	ASTM D97 / ISO 3016	°C/°F	-20/-4

Additional Information

- Clean-up may be difficult because of the excellent resistance to ordinary cleaners and solvents. Use special solvents.
- Where lubricants may come in contact with products (e.g. food, textiles etc.) good effective sealing and handling procedures should be maintained.
- At continuous operating temperatures above 250°C, very small amounts of toxic vapors may develop due to chemical changes; forced draft ventilation is then necessary

This product was previously named Molub-Alloy Foodproof 9830. The name was changed in 2015.

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