

Performance Bio GR 9488

Biodegradable Multi-service Grease

Description

Performance Bio™ GR 9488 is a multi-service grease for sliding and rolling bearings. Due to selected extreme pressure and adhesive additives PERFORMANCE BIO GR 9488 forms a very adhesive lubricating film which is resistant to peak pressures and shock loads.

PERFORMANCE BIO GR 9488 has a synthetic ester as base oil; the high-performance grease is more than 60% biodegradable according to OECD 301B.

- The high base oil viscosity provides for a sufficient thickness of the lubricating film even at low speeds and high loads.
- The synthetic base oil in Performance Bio GR 9488 with its high viscosity and lubricating film stability at elevated temperatures is far superior to products based on mineral oil.
- The solid lubricants contained in Performance Bio GR 9488 provide a good affinity to metal surfaces and additionally improve the anti-wear properties.
- Corrosion and oxidation inhibitors protect machine elements and the lubricant from unfavorable ambient conditions.

Application

- Performance Bio GR 9488 can be used in an operating temperature range from -20°C to +140°C, shortterm application up to +160°C. Depending on the ambient conditions and the type of application it can also be used at different temperatures.
- Performance Bio GR 9488 is suited for sliding bearings which have to be protected against extreme pressures and shock loads; this is achieved through a sufficiently thick lubricating film protecting the equipment for longer service life.
- Performance Bio GR 9488 can be applied with automatic lubricating systems. With adequate equipment the grease can be easily pumped at temperatures down to - 20°C.

Advantages

- Performance Bio GR 9488 forms a very adhesive film on the friction surfaces. This stable film resists even high loads at low speeds.
- The grease is resistant to weather and ambient conditions.
- Performance Bio GR 9488 can be applied easily and economically by means of automatic lubricating systems over a wide temperature range.
- Significantly extended relubrication intervals are possible due the stable lubricating film.

Typical Characteristics

Name	Method	Units	Performance Bio GR 9488
Thickener type	-	-	Silica Gel
Worked Penetration (60 strokes @ 25°C / 77°F)	ASTM D217 / ISO 2137	0.1mm	310-340
Dropping point	ASTM D566 / ISO 2176	°C/°F	>300/>572
Base Oil Viscosity @ 40°C / 104°F	ASTM D445 / ISO 3104	mm ² /s	500
Base Oil Viscosity @ 100°C / 212°F	ASTM D445 / ISO 3104	mm ² /s	54
Viscosity Index	ASTM D2270 / ISO 2909	-	175
Density @ 20°C / 68°F	ASTM D4052	kg/m ³	990
Oil Separation (168 hrs @ 40°C / 104°F)	IP 121 / DIN 51817	% wt	2
Water Resistance	DIN 51807-1	Rating	0
Copper Corrosion (24 hrs, 100°C / 212°F)	ASTM D4048	Rating	1
Rust Test - EMCOR (distilled water)	ASTM D6138 / ISO 11007	Rating	0/0
FE8 Test, Angular Ball Bearing (Brass Cage), mW50	DIN 51819, DIN 51819-2-B-75/80	mg	<10
FE8 Test, Angular Ball Bearing (Brass Cage), mK50	DIN 51819, DIN 51819-2-B-75/80	mg	<10
Flow pressure @ -20°C / -4°F	DIN 51805	mBar	900
Operating Temperature Range	-	°C	-20/ +140

1mm²/s ^ 1cSt, *Passed, Subject to usual manufacturing tolerances.

Additional Information

Extend relubrication intervals only after thorough removal of the previously used lubricant.

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

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