



TECHNICAL DATA

Foodsafe Diamond 360

Description

FOODSAFE DIAMOND 360 is food grade high performance grease with high resistance to heavy loads and water, based on a PAO synthetic oil and advanced greases technology which have been developed by complexing modified overbased calcium sulfonates. FOODSAFE DIAMOND 360 has exceptional mechanical stability, high dropping point, high load carrying performance, reduced wear, and excellent resistance to water and corrosion. FOODSAFE DIAMOND 360 outperforms other premium, high temperature greases such as Lithium Complex and Aluminium Complex. It is designed to provide superior performance at elevated temperatures and during periods of infrequent lubrication in food processing applications. It is best suited for low to medium speed bearings operating under adverse conditions.

Outstanding Features

- Excellent mechanical stability.
- High dropping point, typically in excess of 280 °C
- Excellent EP and AW properties inherent in the thickener
- Excellent low temperature mobility -40 °C
- Superior resistance to water
- Excellent rust prevention properties
- Excellent oxidation stability.

Directions for Use

FOODSAFE DIAMOND 360 can be applied by hand, or by using a standard grease gun (400g cartridges are available), or via a central lubricating system capable of pumping an NLGI No. 2 grease.

As with all greases used for the first time, check compatibility with the grease applied previously and if necessary purge bearings prior to application. Likewise, as a general rule, take care not to over-lubricate and apply the quantity of grease recommended by the bearing manufacturer.

Technical Data

NLGI Grade	ASTM D217	2
Colour	Visual	Tan
Texture	Visual	Smooth
Dropping point, °C	ASTM D2265	>280
Consistency, 60 strokes, mm/10	ASTM D217	265 to 295
Mechanical stability, 10.000 strokes % change	ASTM D217	4.4
Roll stability, 50% water, % change in pen.	ASTM D1831	2.3
Timken OK load, lb	ASTM D2509	60
4-ball EP • LWI, kg • Weld load, kg	ASTM D2596	56 500
4-ball wear, mm	ASTM D2266	0.49
Rust test, rating	ASTM D1743	Pass



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Copper corrosion, rating	ASTM D4048	1B
Wheel bearing leakage, grams	ASTM D4290	3.4
Bearing life performance, hours	ASTM D3527	262
Bomb oxidation, psi drop after 1000 hours	ASTM D3527	5.2
Water washout at 80 °C, % lost	ASTM D1264	3.5
Oil separation, % loss	ASTM D1742	0.1
Low temperature torque, -40 °C, g-cm • Start • 60 minutes	ASTM D1478	5800 790
Base oil viscosity @ 40 °C, cSt		400
Base oil viscosity @ 100 °C, cSt		37.5
Temperature Range °C		-40 to 165

The content of this data sheet is given in good faith but without warranty.

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