

Product Data Sheet

Choice Gear EP 150, 220, 320, 460 Gear Oil

PRODUCT DESCRIPTION

Choice Gear EP lubricants are a family of industrial extreme pressure gear lubricants. They are formulated with high quality mineral oils, which help reduce sludge formation helping to increase oil service life. Choice Gear EP oils contain a sulfur / phosphorus extreme pressure additive system that gives high load carrying ability and protection against wear. In addition these oils provide strong protection against corrosion of steel and copper containing alloys and resist foaming. Choice Gear EP oils have good water handling properties so that water rapidly separates from the oil for easy water elimination.

Choice Gear EP oils can be used in splash or circulating systems, and are suitable for use wherever industrial gear oil is required. Choice Gear EP grades are suitable for the lubrication of heavily loaded enclosed gear sets including spur, helical and bevel designs and provide protection in applications where shock loading occurs. Choice Gear EP may also be used in worm gears where specified. They may also be used for lubrication of plain bearings, and in rolling contact (anti-friction) bearings.

FEATURES AND BENEFITS

Choice Gear EP oils enjoy a reputation for quality and consistency, as well as the ability to handle a variety of tough gear applications. They are manufactured with high quality mineral stocks and a specially chosen additive system.

Choice Gear EP oils offer the following benefits:

- EP wear protection of gears and bearings
- Resistance to sludge formation leads to outstanding system cleanliness
- Very good oxidation resistance for long oil charge life
- Very good demulsibility to ease water removal

APPLICATIONS

Choice Gear EP oils are used in a wide range of industrial spur, helical, bevel and steel-on-steel worm gearing. Specific applications include:

- Drives for conveyers, agitators, dryers, fans, mixers, presses, pulpers, pumps, screens, extruders, oil well pumps
- Industrial bearings- journal and rolling contact, especially operating at low speeds and high loads

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SPECIFICATIONS AND APPROVALS

Choice Gear EP Series meets or exceeds the following industry specifications:	Choice Gear EP 150	Choice Gear EP 220	Choice Gear EP 320	Choice Gear EP 460
AGMA 9005-E02 EP	X	X	X	X
DIN 51517 CLP	X			X
DIN 51517-3: 2009-06		X	X	
ISO 12925-1 Type CKD	X	X	X	
ISO 12925-1 Type CKC				X

TYPICAL PROPERTIES

Choice Gear EP	150	220	320	460
ISO Viscosity Grade	150	220	320	460
Viscosity, ASTM D 445				
mm ² /s @ 40°C	150	220	320	460
mm ² /s @ 100°C	14.7	19.0	24.1	30.6
Viscosity Index, ASTM D 2270	97	97	97	96
Pour Point, °C, ASTM D 97	-24	-24	-24	-15
Flash Point, °C, ASTM D 92	230	240	240	240
Density @15.6 °C, ASTM D 4052, kg/l	0.89	0.89	0.90	0.90
Timken OK Load, ASTM D 2782, lb	65	65	65	65
4-Ball EP test, ASTM D 2783,				
Weld Load, kg	200	250	250	250
Load Wear Index, kgf	47	48	48	48
FZG Scuffing, DIN 51354, Fail Stage				
A/8.3/90	12+	12+	12+	12+
A/16.6/90	12+	12+	12+	12+
Rust protection, ASTM D 665, Sea Water	Pass	Pass	Pass	Pass
Copper Strip Corrosion, ASTM D 130, 3 hrs @ 100°C	1B	1B	1B	1B
Demulsibility, ASTM D 1401, Time to 3ml emulsion, minutes @ 82°C	30	30	30	30

HEALTH AND SAFETY INFORMATION

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet.