



SANDVIK PERFORMANCE FLUIDS LONG-LIFE TRANSMISSION OIL SANDVIK OT220

TECHNICAL SPECIFICATION

DESCRIPTION

The Sandvik OT220 products are industrial gear oils of the latest generation, having outstanding extreme pressure characteristics (EP/AW properties) and an extremely high load carrying capacity. They are industrial gear oils with excellent demulsifying properties which can be used in all types of enclosed gear drives with circulation or splash lubrication systems. The Sandvik OT220 products offer extraordinary wear protection. They surpass the requirements in the standard FZG A/8.3/90 scuffing test as well as the more severe FZG test A/16.6/140 (double velocity - 16.6 m/s - and increased starting oil sump temperature - 140 °C). The Sandvik OT220 products offer an extremely high micropitting protection (load stage "high" in the load stage test as well as the endurance test). They offer excellent wear protection for roller bearings. The wear rates in the FAG FE8 test are extremely low under these extreme test conditions (7.5 rpm, 80 °C, 80 h, 80 kN).

Latest additive technology guarantees excellent wear protection and excellent corrosion protection (steel and copper-containing materials) The Sandvik OT220P products have good elastomer compatibility, stressed static and dynamic elastomers are lubricated and protected from wear. The lifetime of the components is increased. Sandvik OT220 oils can improve equipment reliability and increase productivity.



KEY FEATURES

- Excellent corrosion protection (steel and copper)
- Low foaming, excellent air release
- Excellent demulsifying properties (water and water-containing fluids are separated fast)
- High oxidation resistance
- Extremely high load-carrying capacity, extreme pressure-, anti-wear performance
- Excellent bearing wear protection (under mixed friction conditions) – FE8
- Excellent protection from scuffing, excellent wear protection - FZG (FLS > 14)
- Excellent micropitting resistance in the load stage and endurance test
- High Bruggen wear protection
- Excellent elastomer compatibility (static and dynamic) - NBR and FKM
- Good compatibility with paint materials

APPLICATION

Sandvik OT220 is an industry oil especially for Sandvik continuous miners where the machine needs to cover high loads and is exposed to many vibrations and wet conditions. The Sandvik OT220 oils can be used for all applications where lubricants of the type OT220 according to DIN 51517-3 are recommended by the gear manufacturer. These products meet and in many cases exceed the new requirements of well-known gearbox and bearing manufacturers.

SPECIFICATIONS

The Sandvik OT220 oils meet and in many cases exceed the requirements:

DIN 51517-3 (2011): CLP

ISO 6743-6 and ISO 12925-1: CKC / CKD

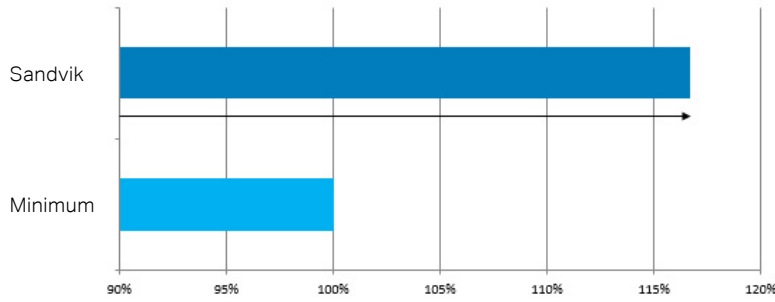
AGMA 9005/E02: EP

AIST 224

TYPICAL CHARACTERISTICS

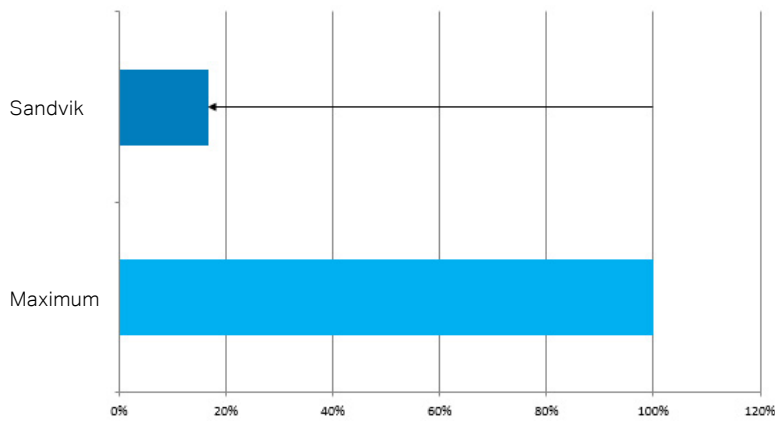
Product name		OT220	
Properties	Unit		Test method
ISO VG		220	DIN 51519
Kinematic viscosity:			DIN EN ISO 3104
at 40 °C	mm ² /s	220	
at 100 °C	mm ² /s	18.9	
Viscosity index	-	96	DIN ISO 2909
Density at 15 °C	kg/m ³	896	DIN 51757
Colour	ASTM	3.5	DIN ISO 2049
Flashpoint (COC)	°C	260	DIN ISO 2592
Pourpoint	°C	-24	DIN ISO 3016
Neutralisation number	mgKOH/g	0.6	DIN 51558-1

FZG GEAR TEST

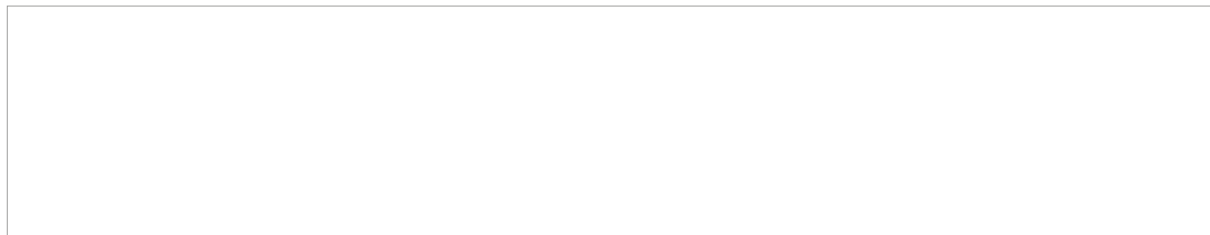


Sandvik OT220 exceeds requirements on FZG anti-wear performance and protects your equipment from scuffing.

FE8 WEAR TEST



Sandvik OT220 shows excellent results in FE8 roller wear tests and reduces wear in your bearings up to 80 %.



Sandvik Mining reserves the right to make changes to the information on this data sheet without prior notification to users. Please contact a Sandvik representative for clarification on specifications and options.