

IKV-TRIBOGear 220

► DESCRIPTION

IKV-TRIBOGear 220 is a premium industrial gear oil made from solvent refined high quality paraffinic mineral oils and an unleaded load carrying additive that delivers a high level of micropitting resistance in addition to high EP protection and thermal stability.

IKV-TRIBOGear 220 offers an outstanding combination of characteristics that can facilitate enhanced performance in the applications in which they are used. Its excellent performances help to protect components and equipment, to extend their life and to reduce maintenance costs.

These properties include:

-Outstanding high temperature performance

Excellent resistance to oxidative breakdown even at high temperature allows to longer fluid life and helps to keep systems free of sludge and varnish.

-Excellent lubrication

The natural ability of the base oils to provide superior lubrication under a wide range of applications. Their low coefficient of friction reduces operating temperatures and power consumption.

-Outstanding anti-wear and extreme pressure performance

Helps prevent micropitting, seizure, scuffing and spalling under shock loading conditions, reduces gear and bearing wear and improves load bearing capability. Protects equipment operating at high production rates for extended periods in demanding conditions. Long reliable component life, resulting in greater plant utilization.

-Good anticorrosion protection

Provides an effective protection from moisture damage, prevents the formation of emulsions that cause rust and protects bronze and copper components.

-Effective water separation

Prevents emulsion formation and eliminates corrosive damage.

-high resistance to foaming and air entrapment

Avoids gear damage caused by insufficient lubricant film due to aeration and prevents reservoir overflow. Reduces also the possibility of cavitation damage to oil circulating pumps where installed.

-Chemical compatibility

Compatible with a wide range of elastomer materials but also plastics, coatings, paints used in equipment already lubricated with mineral or PAO oils. But it is because of this infinite range and variety of polymer combinations and variations in the final formulation that it is usually up to the end user to decide if further compatibility testing is required before making any decision about future use in a new application or with a new material.

IKV-TRIBOGear 220

IKV-TRIBOGear 220 meets or exceeds the performance requirements of:

- SIEMENS MD APPROVAL FOR FLENDER GEARBOXES-REVISION 14
- DIN 51517 PART 3
- U.S. Steel 224
- AGMA 9005-E02
- ISO 12925-1 CKC/CKD
- David Brown S1.53.101
- GM LS 2 EP Gear Oil
- Fives Cincinatti Machine Gear

IKV-TRIBOGear 220 is classified CKD 220 according to ISO DP 6743/6 standard, CC 220 according to the NF E 60-200 standard and cat CLP according to DIN 51517 part 3.

► TYPICAL APPLICATIONS

IKV-TRIBOGear 220 is appropriated for use in all types of enclosed industrial gear drives where an extreme pressure and long life oil is required. It is suitable for the lubrication of heavily loaded gears including Spur, Internal, Helical, Planetary, Bevel, Spiral-Bevel, Rack & Pinion, and Worm gears and provides protection in applications where shock loading occurs.

IKV-TRIBOGear 220 can also be used in circulating systems in heavies industries such as ports installations, cement works and mechanical industries in general.

IKV-TRIBOGear 220 is also effective wire-rope lubricants.

IKV-TRIBOGear 220

► PROPERTIES

CHARACTERISTICS	VALUES	UNITS	TESTS
Oil nature	Mineral		
Kinematic viscosity at 40°C	220	cSt	ASTM D-445
Kinematic viscosity at 100°C	19	cSt	ASTM D-445
Viscosity Index	97		ASTM D-2270
Flash point	270	°C	ASTM D-92
Pour point	-20	°C	ASTM D-97
Density	0.898	g / cm3	ASTM D-1298
Copper Corrosion test (3 hrs @ 100°C)	1b		ASTM D-130
FZG Scuffing (A/8,3/90)	> 12	stage	DIN 51354
4 balls test			
4 balls test - Scar diameter (1h-40kg @75°C)	< 0.5	mm	ASTM D-4172
4 balls test - Welding Load	> 240	kgf	ASTM D-2596

2/2022