OIL TECH

The Lubrication Specialists

TECHNICAL DATA SHEET

SGL INDUSTRIAL GEAR OIL SYNTHETIC 150 & 220

PRODUCT DESCRIPTION

INDUSTRIAL GEAR OIL SYNTHETIC 150 & 220 A high performance synthetic oil designed with a high viscosity index combine Polyalpholefin (PAO) base oil and Ester fluids to provide outstanding protection to a wide variety of gear and bearing application, plus trouble free oil life in high and low temperatures, beyond the capabilities of mineral oils.

This oil has superior resistance to oxidation and sludging, especially at high temperatures, with exceptional resistance to rust and corrosion. It has good anti-wear, remissibility, foam control, air release and multi-metal compatibility properties.

APPLICATION
INDUSTRIAL GEAR OIL SYNTHETIC 150 &220

Filled for life gear boxes, especially high ratio, low efficiency worm gears.
Remote location gear-boxes where oil changes are difficult.
Heavy duty industrial journals, plain and anti-friction bearings, chain drives, slide guides, ect.
Extreme environments like mining, marine and paper milling.

PERFORMANCE

- Excellent high temperature thermal oxidation resistance extends equipment high temperature operation capability.
- High viscosity index maintains viscosity and film thickness at high temperatures.
- Low traction coefficient reduces overall friction, increasing efficiency of gearing.
- Full extreme pressure (EP) High load carrying capability to protect against shock loading.
- Very high shear stability under heavily loaded, high speed conditions.
- Extreme oil life and drain intervals.
- Compatible with mineral oils.
- Rapid Air Release
- Good Water Separation

PERFORMANCE CHARACTERISTICS

US Steel 224	Flender
David Brown Type E	AGMA 9005-D94
DIN 51517 Part 3	Cincinnati Machine P-77 (ISO 150)

TYPICAL INSPECTION

Property	**Method**	**Typical Value**	**Typical Value**
ISO Viscosity Grade		150	220
Viscosity cSt @ 40°C	ASTM D445	150	220
Viscosity cSt @ 100°C	ASTM D445	20	27
Viscosity Index	ASTM D2270	155	158
Pour point °C	ASTM D97	-42	-42
Flash point °C	ASTM D92	270	220
Density at 15 °C	ASTM D4052	0.85	0.87
FZG Load Stage	DIN 51534	12	13
Copper Corrosion 24 hrs @ 121 °C	ASTM D130	1B	1B
Rust Protection	ASTM D665	Pass	Pass
Timken OK Load kg	ASTM D2782	28min	40min
Four Ball Weld Load, Pass		320 min	320 min