



FRAGOL GEAR P 460 FG

FRAGOL GEAR P 460 FG is a synthetic ISO VG 460 high-performance gear lubricant based on a mixture of poly-alpha-olefins (PAO), which utilises the latest available additive technology, providing outstanding extreme-pressure characteristics and load-carrying properties required in gear systems for the food, feed and pharmaceutical industries.

FRAGOL GEAR P 460 FG meets the requirements of FDA 21 CFR 178.3570 and is H1-registered for processes where incidental food contact may occur. All FRAGOL H1-registered products are manufactured in accordance with ISO 21469:2006, which supports producers' HACCP and GMP programmes. FRAGOL H1 lubricants do not contain ingredients of animal origin or genetically modified products and are KOSHER and HALAL certified.

APPLICATIONS

- Gear sets
- Worm gears in mild applications
- Gearing for conveyors
- Agitators and mixers
- Extruders
- Pulpers and presses
- Non-gear applications, e.g. high loaded bearings, shaft couplings, etc.

BENEFITS

- Excellent wear protection
- High corrosion inhibition
- Good water separation
- Very good shear stability
- Extended drain intervals
- Good air release properties
- No deposit/lacquer formation

TYPICAL CHARACTERISTICS

FRAGOL GEAR P 460 FG	Value	Unit	Method
Temperature range	-27 to 160	°C	-
Appearance	colourless / light yellow	-	visual
Viscosity @ 40 °C	473	mm ² /s	ASTM D-445
Viscosity @ 100 °C	55.1	mm ² /s	ASTM D-445
VI	183	-	ASTM D-2270
Density @ 15.6 °C	0.852	kg/l	ASTM D-1298
Total acid number	0.74	mg KOH/g	ASTM D-664
Flash point (COC)	288	°C	ASTM D-92
Pour point	-42	°C	ASTM D-5950
Copper corrosion	1a	-	ASTM D-130
Steel corrosion	pass	-	ASTM D-665 B
Demulsibility @ 82 °C	25	min.	ASTM D-1401
FBW @40kg / 1Hr / 75 °C / 1200rpm	0.31	mm	ASTM D-4172
Welding load	250	kg	ASTM D-2783

SPECIFICATIONS

FRAGOL GEAR P 460 FG meets or exceeds the requirements of the following specifications:

DIN 51517-3: 2018-09 CLP
ISO 12925-1 CKT
ISO-L-CKT (according to ISO/DIS 6743-6)

COMPATIBILITY

FRAGOL GEAR P 460 FG is based on synthetic hydrocarbons and has characteristics very similar to mineral oils with regard to its compatibility with seals, gaskets, hoses and paints. There are no special requirements when replacing mineral oil or other PAO-based lubricants. Flushing is recommended in order to remove any remaining residues.