

## FRAGOL GEAR P 460 FG

### Synthetic Food Grade Gear Oil

**FRAGOL GEAR P 460 FG** is a synthetic ISO VG 460 high performance gear lubricant based on a mixture of poly-alpha-olefins (PAO) and utilizes 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 can occur. All FRAGOL H1-registered products are manufactured according to ISO 21469:2006 which supports producers' HACCP and GMP programs. FRAGOL H1-lubricants do not contain ingredients of animal origin or genetically modified products and are KOSHER and HALAL certified.

#### APPLICATION

**FRAGOL GEAR P 460 FG** is recommended for use in processing machinery, such as:

- Gear sets, excluding worm gears
- Gearing for conveyors
- Agitators and Mixers
- Extruders
- Pulpers
- Presses
- Non-gear applications, e.g. high loaded bearings, shaft couplings, etc.

For further information on other applications please contact our technical team.

#### TEMPERATURE RANGE

-25 °C to 160°C

#### SPECIFICATION

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

DIN 51517-2 CL

ISO 12925-1 CKB

#### BENEFITS

**FRAGOL GEAR P 460 FG** has advantages over mineral oils and other synthetic lubricants and is characterized by:

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

#### 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. No special requirements are necessary when replacing mineral oil or other PAO-based lubricants. Flushing is recommended to remove remaining residues.

#### TYPICAL CHARACTERISTICS

FRAGOL GEAR P 460 FG	Value	Unit	Method
Appearance	Clear, yellow liquid	-	Visual
Viscosity @ 40 °C	457.2	mm <sup>2</sup> /s	ASTM D-445
Viscosity @ 100 °C	49.3	mm <sup>2</sup> /s	ASTM D-445
VI	169	-	ASTM D-2270
Density @ 15.6 °C	0.854	kg/l	ASTM D-1298
Total acid number	0.8	mg KOH/g	ASTM D-664
Flash point (COC)	272	°C	ASTM D-92
Pour point	-24	°C	ASTM D-97
Copper corrosion	1a	-	ASTM D-130
Steel corrosion	pass	-	ASTM D-665 B
Demulsibility @ 82 °C	14	min.	ASTM D-1401
FBW @ 40kg/1Hr/75°C/1200rpm	0.30	mm	ASTM D-4172
Welding load	200	kg	ASTM D-2783

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All the above information is represented to the best of our knowledge. However, we do not take any legal responsibility for the correctness of this information or viability for use in certain applications. Technical data represent approximate values and are subject to the usual production fluctuations.