



## FRAGOL GEAR P 220 FG

FRAGOL GEAR P 220 FG is a synthetic ISO VG 220 high performance gear lubricant based on a mixture of poly-alpha-olefins (PAO) which utilises 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 220 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.

### 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 220 FG	Value	Unit	Method
<b>Temperature range</b>	-25 to 160	°C	-
<b>Appearance</b>	colorless / light yellow	-	visual
<b>Viscosity @ 40 °C</b>	229.7	mm <sup>2</sup> /s	ASTM D-445
<b>Viscosity @ 100 °C</b>	27.9	mm <sup>2</sup> /s	ASTM D-445
<b>VI</b>	153	-	ASTM D-2270
<b>Density @ 15.6 °C</b>	0.847	kg/l	ASTM D-1298
<b>Total acid number</b>	0.8	mg KOH/g	ASTM D-664
<b>Flash point (COC)</b>	254	°C	ASTM D-92
<b>Pour point</b>	-34	°C	ASTM D-5950
<b>Copper corrosion</b>	1a	-	ASTM D-130
<b>Steel corrosion</b>	pass	-	ASTM D-665 B
<b>Demulsibility @ 82 °C</b>	9	min.	ASTM D-1401
<b>FBW @ 40kg/1Hr/75 °C/1200rpm</b>	0.31	mm	ASTM D-4172
<b>Welding load</b>	160	kg	ASTM D-2783

### SPECIFICATIONS

FRAGOL GEAR P 220 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 220 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 to remove remaining residues.