



FRAGOL HYDRAULIC P 46 FG

FRAGOL HYDRAULIC P 46 FG is a synthetic ISO VG 46 high-performance hydraulic fluid based on a mixture of poly-alphaolefins (PAO) which utilises latest available additive technology, providing high anti-wear and extreme-pressure performance required in hydraulic systems for the food, feed, and pharmaceutical industries.

FRAGOL HYDRAULIC P 46 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 according to 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

- Hydraulic and circulating systems
- Low to medium loaded wearings, e.g. ventilators
- Valve lubrication
- Multipurpose lubrication
- Processing machinery, e.g. in the canning and bottling industries

BENEFITS

- Excellent wear protection
- High corrosion inhibition
- Good water separation and air release properties
- Extended drain intervals
- Compatibility with hoses, pipes, and system components
- No deposit/lacquer formation

TYPICAL CHARACTERISTICS

FRAGOL HYDRAULIC P 46 FG	Value	Unit	Method
Temperature range	-40 to 160	°C	-
Appearance	colourless/yellow liquid	-	visual
Viscosity @ 40 °C	48.02	mm ² /s	ASTM D-445
Viscosity @ 100 °C	8.51	mm ² /s	ASTM D-445
VI	155	-	ASTM D-2270
Density @ 15.6 °C	0.837	kg/l	ASTM D-1298
Total acid number	0.64	mg KOH/g	ASTM D-664
Flash point (COC)	235	°C	ASTM D-92
Pour point	-58	°C	ASTM D-97
Copper corrosion	1a	-	ASTM D-130
Steel corrosion	pass	-	ASTM D-665 B
Demulsibility @ 54 °C	10	min.	ASTM D-1401

SPECIFICATIONS

FRAGOL HYDRAULIC P 46 FG meets or exceeds the requirements of the following specifications:

ISO-L-HEPR (according to ISO 6743-4:2015)
HVLP (according to DIN 51524-3)

COMPATIBILITY

FRAGOL HYDRAULIC P 46 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.