

HALALUBE® HFM 46 H1 Food Grade Hydraulic Oil

Halalube® HFM 46 is an ISO VG 46 high performance hydraulic oil based on latest available additive technology providing high anti-wear and extreme pressure performance required in hydraulic systems for the food & beverage processing, edible oil, feeds and pharmaceutical industries.

Halalube® HFM 46 meets the requirements of FDA 21 CFR 178.3570 and is H1-registered for processes where incidental food contact can occur. All Halalube® H1-registered products are manufactured according to ISO 21469:2006 which supports producers' HACCP and GMP programs.

Halalube® H1-lubricants do not contain ingredients of animal origin or genetically modified products and are HALAL certified.

APPLICATIONS: Halalube® HFM 46 is designed for:

- Hydraulic and Circulating Systems
- Low to medium loaded Bearings, e.g.
- Ventilators
- Valve Lubrication
- Multipurpose Lubrication
- Processing Machinery e.g. in the Canning and Bottling Industries

SPECIFICATIONS: Halalube® HFM 46 meets or exceeds the requirements of the following specifications:

ISO 6743/4 HM/HV

DIN 51 524/2 HLP

BENEFITS: Halalube® HFM 46 possesses the following benefits over other mineral oils:

- ✓ Excellent wear protection
- ✓ High corrosion inhibition
- ✓ Good water separation
- ✓ Good air release properties
- ✓ Compatibility with hoses, pipes and system components

SERVICE TEMPERATURE RANGE:

-5 °C to 140°C



HQC is a member of World Halal Food Council (WHFC)

TYPICAL PROPERTIES:	Value	Method
Appearance	Clear, yellow liquid	Visual
Viscosity @ 40°C, cSt	46	ASTM D-445
Viscosity @ 100°C, cSt	6.9	ASTM D-445
VI	104	ASTM D-2270
Density @ 15.6°C, kg/l	0.87	ASTM D-1298
Total acid number, mg KOH/g	0.7	ASTM D-664
Flash point (COC), °C	232	ASTM D-92
Pour point, °C	-20	ASTM D-97
Copper corrosion	1a	ASTM D-130
Steel corrosion	pass	ASTM D-665B
Demulsibility @ 54°C, min.	10	ASTM D-1401
FBW @40kg/1Hr/75°C/1200rpm	0.34 mm	ASTM D-4172
Welding load, kg	160	ASTM D-2783

COMPATIBILITY: Halalube® HFM 46 is compatible with commonly used seals, gaskets, hoses and paints. There are no special requirements when replacing PAO or other mineral-based lubricants. Flushing is recommended to remove remaining residues.

PACKING: 20l & 209l

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

www.HALALUBE.my

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