

## QUANTUM<sup>®</sup> HYDROIL HVLP-46

**Description:** Hydraulic oil formulated from highly refined mineral base stocks exhibiting very good demulsibility and air-release properties blended with a highly efficient additive system including rust, oxidation and corrosion inhibitors, anti-wear agents and a polymethacrylate VII (Viscosity Index Improver). It is suitable for use in hydraulic systems subjected to widely varying temperatures from minus 90 C to +50 C, i.e. as in the open. Thanks to the high quality base oils and additives used in the formulation it is well suited for hydraulic systems operated at very high pressures exceeding 25 MPa and oil temperatures exceeding 90 C. It has the following benefits:

- High viscosity index
- Maximum equipment protection at widely varying temperatures
- Extremely stable at low temperature

**Application:** Hydraulic oil suitable for application in hydrostatic lubrication systems and moving parts in circulating systems, demanding lubricants with very high oxidation stability, improved anti-wear and anti-scuffing properties, good R&O (rust and oxidation) protection, high shear stability and improved viscosity index. This hydraulic oil is also suitable for use in hydraulic systems, hydraulic vane pumps, hydraulic gear pumps and hydraulic piston units.

**Performance Level:** ISO 6743/4 ISO-L-HV, ISO 3448 VG 46, ISO 11158 HV, DIN 51524 Part 3 (HVLP), US Steel 127, Denison HF-O (including Denison T6C pump test), HF-1 & HF-2, Vickers M-2950-S, I-286-S

<b>Typicals:</b>	Density at 20°C, g/ml	EN ISO 3675	0,875
	Kinematic Viscosity at 40°C, mm <sup>2</sup> /s	EN ISO 3104	46
	Viscosity Index	ISO 2909	150
	Flash point COC, °C	EN ISO 2592	200
	Pour point, °C	ISO 3016	-35
	Copper strip corrosion, 3h, 100°C	EN ISO 2160	1
	Water separability		
	-time to 3 ml emulsion,min	ISO 6614	15
	Air release properties , min	ISO 9120	6
	Oxidation stability after 1000h TAN increase, mg KOH/g	ASTM D 4310	< 1
	FZG EP Wear Test (A 8.3/90)		
	- Failure Load Stage	DIN 51354-2	12

Important note: typical data values do not constitute a specification but are an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved.

### Health, Safety and Handling

Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application. For more information about product MSDS, terms and conditions for storage and shelf life please visit: [www.quantum-oils.com](http://www.quantum-oils.com)