

## QUANTUM<sup>®</sup> HYDROIL HL-32

**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 and anti-wear agents. This hydraulic oil is developed for use as working media in hydrostatic lubrication systems and in circulating systems for the lubrication of moving parts and mechanism. Both applications require lubricants of very high oxidation stability, improved anti-wear and anti-scuffing properties and ensuring reliable R&O protection. Successfully pass Vickers 104C Vane Pump Test and has the following properties:

- High resistance to oxidation
- Maximum equipment protection of rust and corrosion
- Extremely stable in presence of water

**Application:** Hydraulic oil suitable for application in hydraulic systems equipped with hydraulic vane pumps, hydraulic gear pumps and hydraulic piston units. It is also effectively used as working fluid in plastic component extruders. Thanks to the high quality base oils and additives used in the formulation of this oil it is well suited for hydraulic system operated at very high pressures exceeding 25 MPa and oil temperatures exceeding 90°C

**Performance Level:** ISO 6743/4 ISO-L-HM, ISO 3448 VG 32, DIN 51524 Part 2 (HLP), ISO 11158 HM (replaced AFNOR NF E 48-603), US Steel 127 (VG 32, 46, 68), Denison HF-O (including Denison T6C, pump test) HF-1 & HF-2, Cincinnati Machine P68 (VG-32), Vickers M-2950-S, I-286-S

<b>Typicals:</b>	Density at 20°C, g/ml	EN ISO 3675	0868
	Kinematic Viscosity at 40°C, mm <sup>2</sup> /s	EN ISO 3104	32
	Viscosity Index	ISO 2909	100
	Flash point COC, °C	EN ISO 2592	190
	Pour point, °C	ISO 3016	-30
	Copper strip corrosion, 3h, 100°C	EN ISO 2160	1
	Water separability		
	-time to 3 ml emulsion, min	ISO 6614	10
	Air release properties, min	ISO 9120	4
	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)