



Hydraulic Oil 46

Technical Data Sheet (TDS)

Product Description

Hydraulic Oil 46 is a premium anti-wear hydraulic fluid manufactured using highly refined mineral base oils and advanced additive technology. It is designed for hydraulic systems operating under high pressure and severe industrial conditions where excellent wear protection, oxidation resistance, and thermal stability are required.

Typical Technical Characteristics

Property	Test Method	Typical Value
ISO Grade	ISO 3448	VG 46
Density @ 15°C	ASTM D4052	0.876 g/cm ³
Kinematic Viscosity @ 40°C	ASTM D445	46.2 cSt
Kinematic Viscosity @ 100°C	ASTM D445	6.85 cSt
Viscosity Index	ASTM D2270	105
Flash Point (COC)	ASTM D92	228°C
Pour Point	ASTM D97	-21°C
Copper Corrosion (3h @100°C)	ASTM D130	1a
Total Acid Number (TAN)	ASTM D664	0.52 mg KOH/g
Sulphated Ash	ASTM D874	0.12 wt%
Zinc Content	ASTM D5185	0.10 wt%
Demulsibility @ 54°C	ASTM D1401	40/40/0 (12 min)
Foam Sequence I	ASTM D892	10/0 ml
Foam Sequence II	ASTM D892	25/0 ml
Foam Sequence III	ASTM D892	10/0 ml
Air Release @ 50°C	ASTM D3427	5 min
Four Ball Wear Scar	ASTM D4172	0.41 mm
FZG Load Stage	DIN 51354	Pass 11
Oxidation Stability	ASTM D943	>3000 hrs
Rust Prevention A/B	ASTM D665	Pass
Water Content	ASTM D6304	<200 ppm
Cleanliness Level	ISO 4406	18/16/13



Performance Standards

Specification	Status
DIN 51524 Part II (HLP)	Meets
ISO 11158 HM	Meets
ASTM D6158 HM	Meets
Eaton Vickers M-2950-S	Meets
Denison HF-0 / HF-1 / HF-2	Meets
Cincinnati Milacron P-70	Meets

Recommended Applications

Application	Suitability
Industrial Hydraulic Systems	Suitable
Hydraulic Press Machines	Suitable
CNC Equipment	Suitable
Excavators & Loaders	Suitable
Injection Molding Machines	Suitable
Mobile Hydraulic Equipment	Suitable

Available Packaging

Packaging Type	Size
Pail	20L
Steel Drum	208L
IBC Tank	1000L
Bulk Supply	Available

