

Premium Synthetic Anti-Wear Hydraulic Oils

ISO Grades: 22, 32, 46, 68

Product Description

Relyant® Premium Synthetic Anti-Wear Hydraulic Oils are advanced, clear, synthetic-based fluids engineered to perform in demanding hydraulic systems. Formulated from synthetically reformed hydrocarbon base stocks, they deliver excellent oxidation stability, rust protection, wear control, and cleanliness. These oils resist viscosity degradation, rapidly release air, and remain fluid in extreme cold, making them ideal for severe service applications.

Applications

- Excavators, cranes, drills, cherry pickers, industrial machinery, and portable compressors.
- Systems exposed to extreme temperature variation including seasonal shifts.
- Hydraulic circuits using vane, gear, and piston-type pumps operating under high load and pressure.
- Circulating systems, gears, and bearings requiring synthetic high-performance hydraulic oils.
- Compatible with all common seal materials used in mineral oil-based systems.
- Maintains dielectric strength (>35KV) in clean, dry systems with minimal agitation under humidity.

Typical Properties

Property	ISO 22	ISO 32	ISO 46	ISO 68
Color (ASTM D- 1500)	<0.5	<0.5	<0.5	<0.5
Appearance	WaterClear	WaterClear	Water Clear	Water Clear
Viscosity @ 40°C (cSt)	21.6	31.8	46.4	67.9
Viscosity @ 100°C (cSt)	4.7	6.0	7.8	10.3
Viscosity Index	135	135	137	138
Flash Point °F/°C (COC)	480/249	500/260	505/263	510/266
Pour Point °F	<-55	<-50	<-45	<-45
Neutralization No. (ASTM D974)	0.45	0.45	0.45	0.45
API Gravity @ 60°F	38.5	37.4	36.4	35.7
Rust Test (ASTM D665 A/B)	No Rust	No Rust	No Rust	No Rust
Emulsion Test (ASTM D1401)	15 Min	15 Min	15 Min	15 Min
Dielectric Strength (ASTM D877)	>35KV	>35KV	>35KV	>35KV
Hydraulic Stability (Cu Loss, mg/cm ²)	0.09	0.09	0.09	0.09
Oxidation Life (ASTM D943,	+16,000	+16,000	+16,000	+16,000

*The values shown are typical of current production. Some are controlled in the manufacturing process, while others are not. All of them may vary within tolerable ranges.