



LUCAS OIL PRODUCTS, INC. PRODUCT DATA SHEET

SYNTHETIC NON-CONDUCTIVE ANTI-WEAR HYDRAULIC OILS

Lucas Oil Non-Conductive Anti-Wear Hydraulic Oils are specially formulated with pure base oils and additive chemistry for excellent oxidative and thermal stability. They provide excellent wear protection and reduce deposits and sludge, which can cause hazards when used around high voltage electrical equipment. The dielectric strength of 38 kV provides excellent resistance to dielectric breakdown, maintaining the fluid as electrically non-conductive. Our formulation has powerful demulsifiers to shed water and protect the fluid's insulating properties. Our formulation delivers improved filterability to ensure maximum contaminant removal.

Dielectric strength is extremely sensitive to humidity as well as water and particle contamination. Containers should be kept tightly sealed and stored in a dry environment until ready for use. Care should be taken when filling hydraulic systems to maintain fluid cleanliness.

Lucas Oil Non-Conductive Anti-Wear Hydraulic Oils are filtered before packaging to an ISO Cleanliness rating of 16/14/11.

PART NUMBER AND SIZE:

ISO 22 10691 – 5 Gallon Pail
ISO 22 10692 – 55 Gallon Drum
ISO 22 11127 – 330 Gallon Tote
ISO 32 11107 – 5 Gallon Pail
ISO 32 11108 – 55 Gallon Drum
ISO 32 11109 – 330 Gallon Tote
ISO 46 10917 – 5 Gallon Pail
ISO 46 11128 – 330 Gallon Tote

FEATURES AND BENEFITS:

- Formulated to deliver up to 6,000-hour fluid service interval.
- High dielectric strength of 38 kV to resist dielectric breakdown and remain electrically non-conductive.
- Excellent demulsibility and filterability to protect fluid dielectric properties.
- Filtered to 16/14/11 ISO Cleanliness Rating to protect system components.

SPECIFICATIONS, APPROVALS AND RECOMMENDATIONS:

Satisfies the performance requirements of: US Steel 127, 136; Denison HF-0, HF-2; DIN 51524 Part II; Vickers I-286S, M-2950-S; Cincinnati Machine (Fives) P68, P69 and P70. 38 kV according to ASTM D877 (dielectric strength).

MAIN APPLICATIONS:

Recommended for use wherever non-conductive fluids are required. Typical uses include cherry pickers and firetruck snorkels. High flash point reduces danger of fire.



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TYPICAL PHYSICAL CHARACTERISTICS:

PROPERTIES	ASTM	ISO 22	ISO 32	ISO 46
API Gravity	D4052	37.7	36.7	35.3
Specific Gravity @ 60°F	D4052	0.837	0.84	0.848
Density @ 60°F, Lbs/US Gal	D4052	6.97	6.97	7.06
Color	D1500	0.5	0.5	0.5
Flash Point, Open Cup, °F	D92	425	425	493
Viscosity @ 40°C, cSt	D445	22	32	46
Pour Point, °C	D97	-21	-21	-15
Foaming Tendency, Sequence II	D892	0/0	0/0	0/0
Demulsibility time, minutes	D1401	10	10	10
Dielectric Strength, kV	D877	38	38	45
Steel corrosion protection	D665	Pass	Pass	Pass
Copper corrosion, 3 hours at 100 °C	D130	1A	1A	1A
FZG A/8.3/90 Load Stage Fail	DIN 51502	12	12	12

These characteristics are typical of current production. However, slight variations in these characteristics may occur.

LINKS AND ADDITIONAL INFORMATION:

For additional product or health and safety information, including product Safety Data Sheets, visit [LucasOil.com](https://www.LucasOil.com)