TECHNICAL DATA SHEET
CIIFROL HYDREX HLP SERIES
Extra Heavy-Duty Anti-Wear Hydraulic Oils

DESCRIPTION
Ciifrol Hydrex HLP series Oils are premium quality, extra heavy-duty anti-wear hydraulic oils designed for mobile and stationary high pressure systems. These oils are made from highly refined Group II base oils and high performance additive packages for very good performance in the field. The high quality base oils provide excellent Thermal and oxidation stability thereby increasing oil life remarkably. These base oils have inherently high Viscosity index and are therefore highly suitable for operations where wide temperature fluctuations may be encountered. The premium quality additive package provides extra heavy duty performance, enhanced anti-wear characteristics, outstanding load bearing characteristics and very good demulsibility. These oils are currently available in viscosity grades of 32, 46, 68 and 100.

APPLICATIONS
These oils are recommended for high pressure hydraulic systems using vane, piston or gear pumps on mobile and stationary equipment used in Industrial construction, Agriculture and Mining. Ciifrol Hydrex HLP oils are also suitable for enclosed gears operating under medium to high load conditions as well as industrial circulating systems where Rust and oxidation inhibited oils are recommended. These oils are found to provide very satisfactory performance in compressor applications where adequate viscosity is matched. Ciifrol Hydrex HLP 68 is used extensively for screw compressor lubrication and Hydrex HLP 100 is used in cylinder lubrication of reciprocating air & gas compressors handling dry air.

SPECIFICATIONS
This is a propriety formulation of SRN Lubricants and they meet the requirements of German standard DIN: 51524 Part II (HLP Type), Hagglunds Denison HF-0 filterability requirement, Vickers 1-286-S and M-2950-S. tests as well as U.S. Steel 127 specifications.

BENEFITS
- Low Compressibility, volatility and foaming tendency
- Good thermal capacity and conductivity
- Good Viscosity temp. characteristics for wide operating temperatures.
- Excellent demulsibility and hydrolytic stability
- Outstanding Anti-wear, anti-corrosion and antirust characteristics
- Very low pour point which will enable its use over wide temperature range.

TYPICAL VALUES

CHARACTERISTIC	32 HLP	46 HLP	68 HLP	100 HLP
Viscosity at 40°C, cSt	28-36	42-50	62-72	95 – 105
Viscosity Index	105	110	110	110
Flash Point, COC, °C	200	210	215	215
Pour Point, °C	(-)18	(-)18	(-)18	-12
Foaming Tendency	Pass	Pass	Pass	Pass
Rust Prevention Characteristics	Pass	Pass	Pass	Pass
FZG Gear Test, Failure Stage	10	10	10	10
Emulsion Test Max 40-37-3 (D 1401)	20 min	20 Min	25 Min	25 Min

The information provided in this Technical Data Sheet is based on our best knowledge and experience and is intended as a general guide. The technical data represents typical values and may vary depending on product batches, operating conditions and application methods.
Users are advised to refer to the latest Technical Data Sheet and Safety Data Sheet (SDS) for applicable product information.
Users are advised to evaluate the product for suitability for their specific application and to follow recommended handling, storage and safety practices. CIIFROL accepts no responsibility for any loss, damage or injury resulting from improper, unintended or abnormal use of the product or conditions beyond its reasonable control.
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