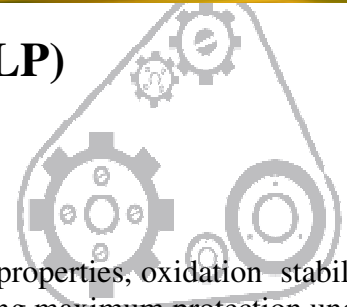




CIRCULATING & HYDRAULIC OIL (HLP)
MOTOTOL HYFLOW HLP 32/46/68/100



Introduction:

MOTOROL Hyflow HLP grade oil are premium hydraulic oils having excellent anti-wear properties, oxidation stability thereby helping in extending the life of the moving parts of the hydraulic systems by providing maximum protection under severe operating conditions. These grades oils meet the requirement of NAS - Class 7 specifications for filterability.

Applications:

MOTOROL Hyflow HLP grades are recommended for hydraulic system and a wide variety of circulation systems of industrial and automotive equipment. These oil are also recommended for compressor crankcase lubrication, high performance electro-hydraulic or numerically controlled systems.

Advantages:

- ◆ Excellent anti-wear properties
- ◆ Excellent resistance to thermal degradation
- ◆ Good hydraulic ability
- ◆ Low pour point

Performance Standard:

HLP grades meet the following requirements;

- ◆ DIN 51524 HLP part 2 Specification
- ◆ US Steel 127
- ◆ IS: 10522-1983 AND IS 11656-1986 (Reaffirmed 1993)
- ◆ Denison HF-O & HF 2
- ◆ CINCINNATI MILACRON P-68,P-70

Typical Specifications:

Sr. No.	Characteristics	Test Methods	32	46	68	100
1	Appearance	Visual	Clear Liquid	Clear Liquid	Clear Liquid	Clear Liquid
2	Colour, Max	ASTM D 1500	1	1	1	1
3	Kinematic Viscosity at 40 °C, cSt	ASTM D 445	29-35	41-50	61-75	90-110
4	Viscosity index, Min	ASTM D 2270	100	100	100	110
5	Flash Point, °C Min	ASTM D 92	180	190	200	210
6	Pour Point, °C Max	ASTM D 97	-21	-21	-21	-21
7	Copper strip corrosion at 100°C for 3 Hrs.	ASTM D 130	1A	1A	1A	1A

Environment, Health & Safety:

Every care has been taken to ensure the accuracy of the information in this PDS. This however may be affected by subsequent improvement in product (R&D). MSDS is available for all MOTOROL products on request.

MOTOROL products are unlikely to present any health and safety hazard with proper use for the correct application and maintain proper personal hygiene. Do not Spill oils on the shop floor, discharge into drains ,ground or water sources.