



# PRODUCT INFORMATION

## Chakrol Hydraulic Oils

### DESCRIPTION

**Chakrol** Hydraulic Oils are superior quality lubricating oils formulated from high quality paraffinic base stocks and synergistic additive packages. These oils exhibit excellent ageing characteristics and good corrosion protection properties. These oils are classified as HM Type Hydraulic and Lubricating Oils for circulating systems.

### PROPERTIES

- Good oxidation stability and ageing resistance.
- Rapid air release and low foaming.
- Excellent corrosion protection for steel and non ferrous metals.
- Optimum demulsification characteristics.
- Good compatibility with sealing materials.

### APPLICATIONS

**Chakrol** Hydraulic oils are recommended for use in all hydraulic systems designed for use of HM Type oils. Applications include machine tool hydraulic, agricultural machinery, earthmoving equipment and public works. These oils can also be used in sealed circuits to lubricate bearings, gears, regulators, vacuum pumps and high performance compressors.

**Hydraulic circuits must be thoroughly cleaned before adding Chakrol Hydraulic Oils.**

### SUPPLY OPTIONS

**Chakrol** Oils are available in ISO VG 32, 46,68,100 150,220,320 & 460 packed in 210 lit.,20 lit., 10 Lit, 5 Lit .HDPE Containers. Other viscosity grades can be made available on request. These oils are also supplied in bulk in Tank Trucks.

**SPECIFICATIONS:** *Confirms to Denison HF-O & BIS 11656 of 1986.*

(Typical Data)

Properties	Chakrol Hydraulic Oils					Test Method
	32	46	68	100	150	
Density, Kg/l @ 15.5 C	0.870	0.875	0.878	0.88	0.882	ASTM D 1298
Kinematic Viscosity @ 40 °C, cSt	28.8-35.2	41.4-50.6	61.2-74.8	90-110	135-165	ASTM D 445
Viscosity Index	95	90	90	90	90	ASTM D 2270
Flash Point, COC	210	210	210	220	220	ASTM D 92
Popur Point °C,	-6	-6	-6	-6	-6	ATM D 97
Neutralization No.,mgKOH/g	-- 0.65 ---					ASTM D 974
Copper Corrossion @100°C, 3 hrs	1a					ASTM D 130
Rust preventive Test	Pass A					ASTM D 665
Oxidation stability RBOT method, min	> 500					ASTM D 2272



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### SPECIFICATIONS

(Typical Data)

Properties	Chakrol Hydraulic Oils			Test Method
	220	320	460	
Density, Kg/l@ 15.5 C	0.885	0.890	0.895	ASTM D 1298
Kin. Viscosity@ 40 °C, cSt	198-242	288-352	414-506	ASTM D 445
Viscosity Index	90	90	90	ASTM D 2270
Flash Point,COC	240	240	240	ASTM D 92
Pour Point °C,	0	0	0	ATM D 97
Neutralization No.,mgKOH/g	-- 0.65---			ASTM D 974
Copper Corros @ 100°C, 3 hrs	1a			ASTM D 130
Rust preventive Test	Pass A			ASTM D 665
Oxidation stability RBOT method, min	> 500			ASTM D 2272

- *The above data is indicative of recent averages values only. Minor variations that do not affect product performance or quality may be expected in manufacture.*
- *Specific requirements can be custom made on request.*
- *The above information is supplied to the best of our knowledge and belief, on the basis of the current state-of-art and our own development work. Subject to amendment.*

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