



An ISO 9001:2015 Certified Co.

Product Data Sheet

DC Gear Oil

- ISO Designation: ISO-L-CKB
- ISO Viscosity Grades: 32,46,68,100,150,220,320,460,680
- Performance Standards: ISO 6743-6: 2018; ISO 12925 Pt.1 CKB: 2018, IS 11159-7:2012, IS 8406: 1993
- Usage Guidelines: Enclosed Gears having continuous lubrication by splash, circulation or injection (parallel straight or helical, internal or external, bevel straight or helical, worm, planetary)
- Composition: Base Oil Group II, Additives: Anti Corrosion (0.4 to 2%), Anti Oxidants (0.4 to 2%), Anti Foam (0.1 to 1%)

Physico-Chemical Properties: Gear Oil

S.No	Characteristics	Test Method	32	46	68	100	150	220	320	460	680
1	Kinematic Viscosity @40°C, cSt, range	IS 1448 P:25	9 to 11	13.5 to 16.5	19.8 to 24.2	28.8 to 35.2	41.4 to 50.6	61.2 to 74.8	90 to 110	135 to 165	162 to 178
2	Viscosity Index, min	IS 1448 P:56	90								
3	Flash Point, Cleveland (open) cup, °C, min	IS 1448 P:69	180	180	200	200	200	220	220	230	230
4	Pour Point, °C, max	IS 1448 P:10	-6	-6	-6	-6	-6	-3	-3	0	0
5	ASTM Colour, max	IS 1448 P:12	4	4	4	4	4.5	4.5	4.5	4.5	4.5
6	Air Release value, minutes to 0.2% volume air-content at 50°C(upto 150cSt)/90°C, max	IS 1448 P:102	10	10	12	18	30	9	10	12	15
7	Inorganic Acidity, mg of KOH/g of oil	IS 1448 P:2	Nil								
8	Rust Protection	IS 1448 P:96	no rust after 24hrs with synthetic sea water								
9	Copper Strip Corrosion, 100°C, 3 hrs	IS 1448 P:15	1								
10	Oxidation Stability at 121°C, 312 hrs, 10 L air/hr	ASTM D2893	increase in Kinematic Viscosity at 100°C not exceed 6%								
11	Foaming Characteristics : Volume of foam after 10 minutes, rest, ml, max a) Sequence I at 24°C; b) Sequence II at 93°C, max; c) at 24°C after cooling down from 93°C, max	IS 1448 P:67	10 for all parts a), b) and c)								
12	Demulsibility: a) % of water in oil after 5hrs of test	ASTM D2711	0.5								
13	Demulsibility: b) Cuff after centrifuging, ml, max	ASTM D2711	2	2	2	2	2	2	2	NA	NA
14	Demulsibility: c) Total free water collected during test (starting with 45 ml of water), min	ASTM D2711	30	30	30	30	30	30	30	NA	NA
15	Ash, % by mass, max	IS 11656:4	0.1								

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