

DIRGHAYU

Green- Biobased, Multipurpose Grease – (IP-MP-2 CL) & Extreme Pressure Grease (IP-EP-2 CL)



'PRODUCT INFORMATION'

'Dirghayu' Multipurpose grease IP-MP-2 CL & Dirghayu Extreme pressure grease IP-EP-2 CL are from Dirghayu Green biobased lubricant products range.

Being biobased, they have very high lubricity compared to petro or synthetic greases. This can be verified from very low four ball scar dia. given in TDS. High lubricity is the priority requirement of reducing friction between any relative movements, whether revolving or sliding. The reduced friction means Energy saving & longer life for articles having relative movement. The base oil is having polar nature, which forms thin, strong film having adhesion with the substrate & avoids metal to metal contact.

Moreover, these greases are Green & Environment friendly. No problem of disposal. ETP is not required. No health & safety hazards, while handling these greases.

These greases are manufactured using veg. oils, having viscosity of about 200 cst and high flash point above 280. Organically modified clay is used as thickener.

IP-MP-2 CL is brown in colour, while IP-EP-2 CL is black due to addition of molybdenum disulphide for extra pressure. This increases high load bearing capacity or EP-2 property imparted by MOS2.

[Both types are also available in NLGI 1 & NLGI 3 grades.](#)

APPLICATIONS-

IP-MP-2 CL Greases

- Most suitable for lubrication of plain & anti-friction bearings & machine elements, slides, operating under high temp. conditions between 120 deg.c. to 250 deg.c. Calendar roll bearings of textile mills, paper mills, PVC filling machines, hot air exhausters / blowers, high temp. stuffing boxes etc.

IP-EP-2 CL Grease

- Most suitable for high load & impact loads on the components. Recommended for Soot blowers of power plants, sliders & other moving parts of overhead cranes, socking pits in steel mills, track rollers of earth moving equipment, billete feeder bearings in rolling mills & bogie cars in sintering plants etc working under high temp. conditions between 120 to 250 deg.c. & simultaneously experiencing shock loads.

PERFORMANCE BENEFITS-

- Energy saving & long life of machine due to very high lubricity.
- Excellent oxidative stability to withstand & sustained high temp.
- Min. softening & loss of structure even under substantial shear & shock loading.
- Excellent resistance to water wash out.
- Resist effects of mild acids & alkalis.
- Environment friendly & green. No human problems in handling or disposal.

COMMITTED TO ENERGY CONSERVATION & ENVIRONMENT PROTECTION

TECHNICAL DATA SHEET

IP-MP-1/2/3 CL Grease & IP- EP-1/2/3 CL Grease

NO	PROPERTY	UNIT	ASTM METHOD	STD VALUE	IP-MP-1/2/3 CL	IP-EP-1/2/3 CL	
1	Base oil				Chemically modified veg. oil	Chemically modified veg. oil	
2	Base oil viscosity at 40 0C	CST	D445		216	216	
3	Base oil viscosity at 100 0C	CST	D445		30.28	30.28	
4	viscosity index				181	181	
5	Thickener				organically modified clay	organically modified clay	
6	NLGI Grades	1		1	1	1	
		2		2	2	2	
		3		3	3	3	
7	work penetration after 60 strokes	1	mm	310-340	325	325	
		2	mm	D217	265-295	285	285
		3	mm		220-250	235	235
8	Structure	1		Smooth	Smooth	Smooth	
		2		Smooth	Smooth	Smooth	
		3		Hard	Hard	Hard	
9	Colour				Yellow	Yellow	
10	Dropping Point	o C	D 566	>260	280+	280+	
11	Resistance to Water washout@79 Deg C %loss by mass	%	D-1264	<5	0.3	0.3	
12	Copper Stripe corrosion Test		D 4048	1a	1a	1a	
13	Four ball Scar dia test	mm	D 2266-01	0.4-0.5	0.4-0.5	0.4-0.5	
14	Four ball weld load	kg	2596	250/350	250	>350	
15	Usable Temp range	o C	4048		(-) 0 to +200	(-) 0 to +200	
16	oil leakage tendency test	gm	D 1263	<5	0.5	0.5	
17	oil separation test	gm	D1742	<3	1.2	1.2	

Applications:- Dirghayu Multipurpose Grease (IP-MP-1/2/3 CL Grease)



Applications:- Dirghayu Extreme Pressure Grease (IP EP-1/2/3 CL)



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