

## EXPANDING GLOBALLY

Exported to more than 30 Countries in Europe, Americas, Far East, Middle East, Asia & Africa



# LUBRICANTS

### API LICENSE AGREEMENT

energy **API**  
License No. 3337



[www.eiffellubricants.com](http://www.eiffellubricants.com)

#### Marketing & Sales Head Oce in UAE

402 | SAHEEL 1 | Al Nahda 1 | Dubai | UAE

Tel: 971-4-2598745 | Fax: 971-4-2598746

PO Box : 41607 | Dubai

Email: [sales@eiffellubricants.com](mailto:sales@eiffellubricants.com)

#### Manufacturing Plant-1 in UAE

PLANT-1: New Industrial Area,

PO Box: 4606, UAQ, UAE

#### Manufacturing Plant-2 in UAE

PLANT-2: Industrial Area 10,

PO Box: 47480, Sharjah, UAE

#### Exclusive Importer & Marketer India

Eiel Grease & Lubricants Pvt. Ltd.

103 - MSN Heights, 12-2-827/35,

Kranthinagar Colony, Mehdiapatnam,

Hyderabad-500028, T.S., India.

Helpline: +91 40 6535 4000

Email: [eiffelindia@eiffellubricants.com](mailto:eiffelindia@eiffellubricants.com)

#### Manufacturing Plant in Kenya

Eiel Manufacturing (K) Ltd.

P.O Box: 78444-00507,

Viwandani, Nairobi, Kenya.

Helpline: +254 703214400

Email: [info@eiffellubricantskenya.co.ke](mailto:info@eiffellubricantskenya.co.ke)

# Life Without Friction

## INDUSTRIAL & MARINE LUBRICANTS





# INTRODUCTION

The past few decades has seen the UAE emerge as a business, financial and automotive powerhouse in the MEA region. The country has invested heavily in infrastructure and strived hard to build an investor friendly climate. It is to tap this tremendous potential that Burj Eiffel Int. Lubricants Ind. LLC was established in the year 2004.

Since then the company has grown from strength to strength and has established itself as an organization focused on quality, innovation and customer centricity. The company is a leading lubricant blender in the region, whose products are exported to more than 30 countries across Middle East, Europe, Far East, Asia and Africa regions and is an emerging force in the local lubricant market.

We have invested heavily in Research and Development and have state of the art testing laboratories. Our facilities are certified for ISO 9001-2008 quality management systems and approved by major OEM players such as Volvo, MAN, Porsche, VW, Renault, MB, Mack etc. Our products meet the highest standards of API, MIL, European and Japanese manufacturers which clearly indicates our commitment to quality.

We have continued to invest in human resources as we recognize that they are the drivers of innovation and change that this organization represents. Our employees represent the best talent and experience in the industry and they along with our progressive management strive hard each day to deliver better products and services to our customers.

We hope you would find this product catalog useful and together we can strive to reach greater heights and achieve mutually beneficial goals in the Lubricant market and beyond.



## OUR PHILOSOPHY

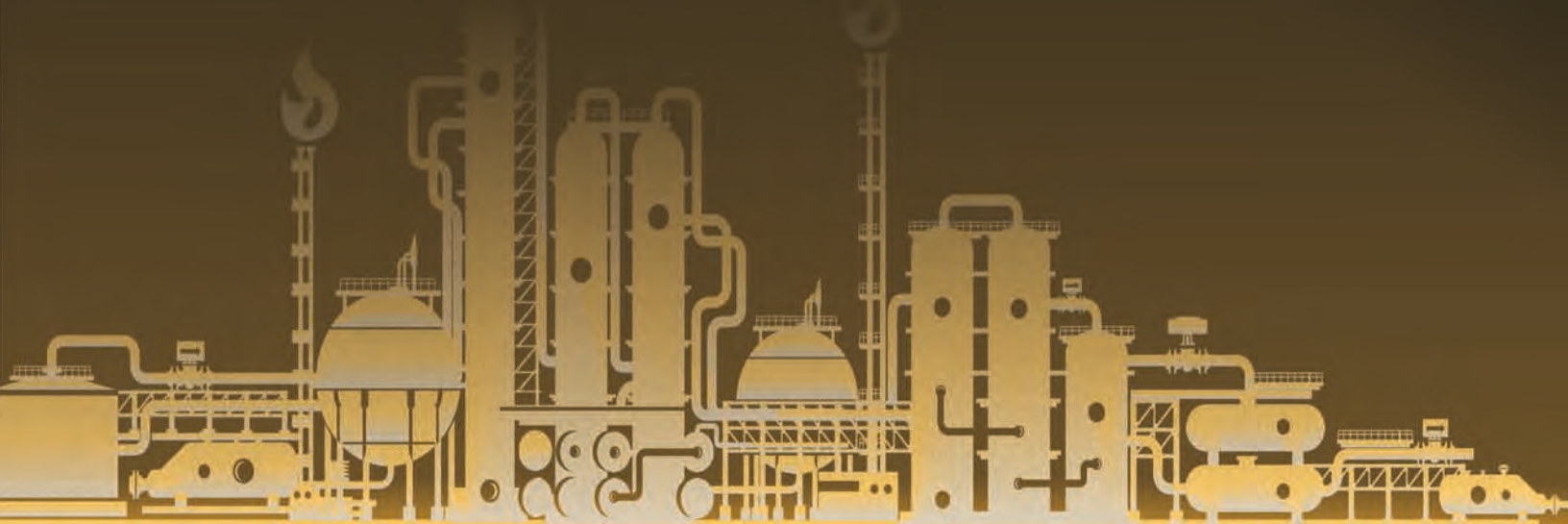
In this highly competitive and volatile market, we strive to offer products and services which are unique and differentiate us from competition. We treat our clients as a business partners and believe that in their success lies our growth. We continuously improve and enhance our offerings to stay a step ahead of the competition and deliver impeccable quality and value to our customers.

## OUR FACILITIES

We have multiple state of the art facilities for blending and filling of lubricants, with an installed capacity of blending and filling of more than 40,000 MT of lubricants per annum, 16,000 MT of greases and 6,000 MT per annum of Viscosity Improvers. An indicator of our rigorous emphasis on quality is that our facilities are ISO 9001-2008 certified. Moreover, our Quality Assurance Laboratory is under process of pursuing ISO 17025 accreditation.

Our operations have a state of the art and one of the best R&D and testing lab in the region which help us innovate and ensure that our quality standards meet the best in the industry.

Our strategic blending and filling facilities are also present in key regions namely Kenya and India.





EIFFEL HIPOWER HYD HVI series

Eiffel HiPower Hyd HVI range of lubricants are high viscosity index anti-wear hydraulic fluids formulated with high quality HVI base stocks and advanced anti-wear additive technology. They are designed to work efficiently in hydraulic & fluid power transmission systems, subjected to wide temperature ranges operating under severe conditions. These oils are available in ISO viscosity grades from 15 to 150.

Eiffel HIPOWER HYD HVI	Test Method	Units	15	22	32	46	68	100	150
ISO Viscosity Grade	ISO 3448	-	15	22	32	46	68	100	150
Density @ 15 °C	ASTM D 4052	gm/cc	0.845	0.864	0.870	0.878	0.880	0.887	0.894
Viscosity @ 40 °C	ASTM D 445	cSt	15.6	22.9	32.4	46.8	68.9	100.8	150.2
Viscosity @ 100 °C	ASTM D 445	cSt	3.99	5.12	6.46	8.41	11.27	13.21	16.85
Viscosity Index	ASTM D 2270	-	161	160	156	156	156	128	120
Pour Point	ASTM D 97	°C	-39	-39	-36	-36	-36	-33	-33
Flash Point (COC)	ASTM D 92	°C	202	204	224	230	234	246	252
Copper Strip Corrosion	ASTM D 130	-	1A	1A	1A	1A	1A	1A	1A
Rust Characteristics Proc B	ASTM D 665	-	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Foam Seq I,II,III	ASTM D 892	ml/ml	20/0	20/0	20/0	20/0	20/0	20/0	20/0
Demulsibility, 40/40/0	ASTM D 1401	min	10	10	15	20	20	25	30
TAN, mg KOH/g	ASTM D 2896	-	0.6	0.6	0.6	0.6	0.6	0.6	0.6

EIFFEL HIPOWER HVI ZF series

Eiffel HiPower Hyd HVI ZF range of lubricants are high viscosity index Zinc Free Ashless anti-wear hydraulic fluids formulated with high quality HVI base stocks and advanced very low ash anti-wear additive technology. They are designed to work efficiently in hydraulic & fluid power transmission systems, subjected to wide temperature ranges operating under severe conditions. These oils are available in ISO viscosity grades from 15 to 150. Moreover, they are also designed to work in systems where high hydrolytic stability is required, even presence of high moisture content inhydraulic systems.

Eiffel HiPower Hyd HVI ZF	Test Method	Units	15	22	32	46	68	100	150
ISO Viscosity Grade	ISO 3448	-	15	22	32	46	68	100	150
Density @ 15 °C	ASTM D 4052	gm/cc	0.84	0.86	0.870	0.878	0.880	0.887	0.894
Viscosity @ 40 °C	ASTM D 445	cSt	15.6	22.9	32.4	46.8	68.9	100.8	150.2
Viscosity @ 100 °C	ASTM D 445	cSt	3.99	5.12	6.46	8.41	11.27	13.21	16.85
Viscosity Index	ASTM D 2270	-	161	160	156	156	156	128	120
Pour Point	ASTM D 97	°C	-39	-39	-36	-36	-36	-33	-33
Flash Point (COC)	ASTM D 92	°C	202	204	224	230	234	246	252
Copper Strip Corrosion	ASTM D 130	-	1A	1A	1A	1A	1A	1A	1A
Rust Characteristics Proc B	ASTM D 665	-	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Foam Seq I,II,III	ASTM D 892	ml/ml	20/0	20/0	20/0	20/0	20/0	20/0	20/0
Demulsibility, 40/40/0	ASTM D 1401	min	10	10	15	20	20	25	30
TAN, mg KOH/g	ASTM D 2896	-	0.6	0.6	0.6	0.6	0.6	0.6	0.6

EIFFEL HIPOWER HYD ZF series

Eiffel HiPower Hyd ZF range of lubricants are supreme performance Zinc Free Ashless anti-wear hydraulic oils formulated with high quality base-stocks and advanced additive technology. They are designed to work efficiently in hydraulic systems operating under severe conditions, where high levels of anti-wear and oil film strength protection are desired. Moreover they are also designed to work in systems where high hydrolytic stability is required, even in presence of high moisture content in hydraulic systems.

Eiffel HiPower Hyd ZF	Test Method	Units	10	22	32	46	68	100	150
ISO Viscosity Grade	ISO 3448	-	10	22	32	46	68	100	150
Density @ 15 °C	ASTM D 4052	gm/cc	0.845	0.864	0.870	0.878	0.880	0.887	0.894
Viscosity @ 40 °C	ASTM D 445	cSt	10.0	22.9	32.4	46.8	68.9	100.8	150.2
Viscosity @ 100 °C	ASTM D 445	cSt	2.67	4.4	5.38	6.78	8.72	11.15	14.56
Viscosity Index	ASTM D 2270	-	102	100	98	98	98	95	95
Pour Point	ASTM D 97	°C	-30	-30	-27	-27	-21	-21	-18
Flash Point (COC)	ASTM D 92	°C	202	204	224	230	234	246	272
Copper Strip Corrosion	ASTM D 130	-	1A	1A	1A	1A	1A	1A	1A
Rust Characteristics Proc B	ASTM D 665	-	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Foam Seq I,II,III	ASTM D 892	ml/ml	10/0	10/0	10/0	10/0	10/0	10/0	10/0

EIFFEL HIPOWER HYD AW series

Eiffel HiPower Hyd AW range of lubricants are supreme performance anti wear hydraulic oils formulated with high quality base stocks and balanced additive technology. They are designed to work efficiently in hydraulic systems operating under severe conditions, where high levels of anti-wear and oil film strength protection are desired. Moreover they are also designed to work in systems where non anti-wear hydraulic oils are generally recommended.

Eiffel Hipower Hyd AW	Test Method	Units	15	22	32	46	68	100	150
ISO Viscosity Grade	ISO 3448	-	15	22	32	46	68	100	150
Density @ 15 °C	ASTM D 4052	gm/cc	0.845	0.864	0.870	0.878	0.880	0.887	0.894
Viscosity @ 40 °C	ASTM D 445	cSt	15.6	22.9	32.4	46.8	68.9	100.8	150.2
Viscosity @ 100 °C	ASTM D 445	cSt	3.5	4.4	5.38	6.78	8.72	11.15	14.56
Viscosity Index	ASTM D 2270	-	100	100	98	98	98	95	95
Pour Point	ASTM D 97	°C	-39	-30	-27	-27	-21	-21	-
Flash Point (COC)	ASTM D 92	°C	202	204	224	230	234	246	272
Copper Strip Corrosion	ASTM D 130	-	1A	1B	1B	1B	1B	1B	1B
Rust Characteristics Proc B	ASTM D 665	-	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Foam Seq I,II,III	ASTM D 892	ml/ml	20/0	20/0	20/0	20/0	20/0	20/0	20/0

- DIN 51524 Part 2 HLP type
- Denison HF-0 (T6H20C)
- ISO 11158 (HM fluids)
- VICKERS M-2950S, -I-286

- VICKERS M-2950S, -I-286

- DIN 51524 Part 3 HVLP type
- Denison HF-0, HF-2 (T6H20C)
- Cincinnati Machine P68, P69, P70
- ISO 6743/4 HV
- VICKERS M-2950S, -I-286
- VICKERS 35VQ25, 104C

EIFFEL TURBO T series

Eiffel Turbo T series are high performance zinc free turbine oils formulated with high quality hydro treated base stocks and advanced additive technology, to provide exceptional equipment protection and reliability in most non-g geared steam turbine systems and low to moderate duty gas turbines. They are designed to demonstrate excellent oxidation stability, resistance to sludge & varnish formation, protection against rust & corrosion, low foaming and excellent demulsibility.

Eiffel Turbo T	Test Method	Units	32	46	68
ISO Viscosity Grade	ISO 3448	-	32	46	68
Density @ 15 °C	ASTM D 4052	gm/cc	0.870	0.872	0.875
Viscosity @ 40 °C	ASTM D 445	cSt	32.2	46.5	68.8
Viscosity @ 100 °C	ASTM D 445	cSt	5.62	7.10	9.16
Viscosity Index	ASTM D 2270	-	112	110	108
Pour Point	ASTM D 97	°C	-30	-30	-27
Flash Point (COC)	ASTM D 92	°C	224	230	234
TOST, Hours to 2 NN	ASTM D 943	Hours	>10,000	>10,000	>10,000
Copper Strip Corrosion	ASTM D 130	-	1A	1A	1A
Rust Characteristics Proc B	ASTM D 665	-	Pass	Pass	Pass
Air Release , 50 °C	ASTM D 3427	mins	3	4	4
Foam Seq I,II,III	ASTM D 892	ml/ml	0/0	0/0	10/0
Demulsibility, 40/40/0	ASTM D 1401	min	10	10	10

EIFFEL TURBO HEAVY series

Eiffel Turbo Heavy series are high performance heavy duty circulating oils formulated with high quality base stocks and advanced additive technology, to provide exceptional equipment protection and reliability in applications lubricated by circulating systems which are operating under moderate to severe conditions. They are specifically designed to demonstrate high resistance to oxidation & thermal degradation, resist sludge formation, excellent demulsibility and high level of protection against wear, rust and corrosion.

Eiffel Turbo Heavy	Test Method	Units	150	220	320	460
ISO Viscosity Grade	ISO 3448	-	150	220	320	460
Density @ 15 °C	ASTM D 4052	gm/cc	0.894	0.898	0.900	0.904
Viscosity @ 40 °C	ASTM D 445	cSt	150.2	220.5	320.9	460.8
Viscosity @ 100 °C	ASTM D 445	cSt	14.56	18.75	23.95	30.45
Viscosity Index	ASTM D 2270	-	95	95	95	95
Pour Point	ASTM D 97	°C	-18	-18	15	-12
Flash Point (COC)	ASTM D 92	°C	272	276	278	284
FZG Gear Test, Fail stage	DIN 51354	-	12	12	12	12
Copper Strip Corrosion	ASTM D 130	-	1B	1B	1B	1B
Rust Characteristics Proc B	ASTM D 665	-	Pass	Pass	Pass	Pass
Foam Seq I,II,III	ASTM D 892	ml/ml	10/0	10/0	10/0	10/0
Demulsibility, 40/40/0 @ 82°C	ASTM D 1401	min	15	15	15	20

EIFFEL TURBO R series

Eiffel Turbo R series of lubricants are supreme performance air compressor oils formulated with high quality base stocks and advanced additive technology, to provide exceptional equipment protection and reliability for compressors operating under mild to severe conditions. They are designed to meet or exceed the requirements of DIN 51506 VD-L standards and demonstrate high resistance to oxidation and deposit formation.

Eiffel Turbo R	Test Method	Units	32	46	68	100	150
ISO Viscosity Grade	ISO 3448	-	32	46	68	100	150
Density @ 15 °C	ASTM D 4052	gm/cc	0.870	0.878	0.880	0.887	0.894
Viscosity @ 40 °C	ASTM D 445	cSt	32.4	46.8	68.9	100.8	150.2
Viscosity @ 100 °C	ASTM D 445	cSt	5.38	6.78	8.72	11.15	14.56
Viscosity Index	ASTM D 2270	-	98	98	98	95	95
Sulfated Ash	ASTM D 874	wt%	<0.01	<0.01	<0.01	<0.01	<0.01
Pour Point	ASTM D 97	°C	-27	-27	-21	-21	-18
Flash Point (COC)	ASTM D 92	°C	224	230	234	246	272
Copper Strip Corrosion	ASTM D 130	-	1B	1B	1B	1B	1B
Rust Characteristics Proc B	ASTM D 665	-	Pass	Pass	Pass	Pass	Pass
Foam Seq I,II,III	ASTM D 892	ml/ml	10/0	10/0	10/0	10/0	20/0

EIFFEL TURBO WAY series

Eiffel Turbo Way series are high performance machine tool slideway oils formulated with high quality base stocks and advanced additive technology, to meet the requirements for accuracy, aqueous coolant separability and equipment

Eiffel Turbo Way	Test Method	Units	32	68	150	220
ISO Viscosity Grade	ISO 3448	-	32	68	150	220
Density @ 15 °C	ASTM D 4052	gm/cc	0.870	0.880	0.894	0.898
Viscosity @ 40 °C	ASTM D 445	cSt	32.4	68.9	150.2	220.5
Viscosity @ 100 °C	ASTM D 445	cSt	5.38	8.72	14.56	18.75
Viscosity Index	ASTM D 2270	-	98	98	95	95
Pour Point	ASTM D 97	°C	-24	-24	-12	-12
Flash Point (COC)	ASTM D 92	°C	224	234	272	276
FZG Gear Test, Fail stage	DIN 51354	-	12	12	12	12
Copper Strip Corrosion	ASTM D 130	-	1B	1B	1B	1B
Rust Characteristics Proc B	ASTM D 665	-	Pass	Pass	Pass	Pass
Foam Seq I,II,III	ASTM D 892	ml/ml	10/0	10/0	10/0	10/0
Demulsibility, 40/40/0	ASTM D 1401	min	10	10	15	15

- DIN51515Part-1& Part-2
- MANTurboQualityRequirementforLubricants
- Siemens(non-EP): TLV 901304,TLV901305
- GEGEK28413B/27070/32568/107395A/46506E
- BritishStandardBS489& SolarES9-224W
- AlstomPowerTurboHTGD90-117V0001X(non-EP)

- FAG/ SKF (PM oils for Dry section)
- Morgan Bearings: DIN 51517-2 (CL specs)

- DIN 51506 VD-L

- DIN 51502-3 (CGLP)



EIFFEL SYN AXEL IND GEAR EP series

Eiffel Syn Axel Ind Gear EP series of lubricants are supreme performance industrial gear oils, formulated with fully synthetic PAO base stocks fortified with sulfur-phosphorus additive system. They are designed to work efficiently in all types of enclosed gear drives with circulation or splash lubrication systems, where outstanding extreme pressure characteristics (EP/AW properties), extremely high load carrying capability and excellent demulsifying properties are desired. Moreover they offer extremely high protection against micropitting, wear and corrosion in enclosed gears and all types of oil lubricated bearings. Suitable for use in large & small spur bevel, spiral, helical & herringbone gears.

Eiffel Syn Axel Ind Gear	Test Method	Units	EP 220	EP 320	EP 460	EP 680	EP 1000
ISO Viscosity Grade	ISO 3448	-	220	320	460	680	1000
Density @ 15 °C	ASTM D 4052	gm/cc	0.860	0.865	0.865	0.870	0.875
Viscosity @ 40 °C	ASTM D 445	cSt	220.8	320.8	460.80	680.5	998.5
Viscosity @ 100 °C	ASTM D 445	cSt	25.40	33.30	45.85	62.35	84.15
Viscosity Index	ASTM D 2270	-	145	145	155	160	165
Pour Point	ASTM D 97	°C	-42	-39	-39	-27	-27
Flash Point (COC)	ASTM D 92	°C	240	245	250	255	260
FZG Micropitting	FVA 54 IIV	-	10+	10+	10+	10+	10+
FZG Scuff Fail Stage	DIN 51 354/2	-	>14	14	>14	>14	>14
Timken OK Load	ASTM D 2670	lb/kgf	90	90	90	90	90
Cu Strip Corrosion	ASTM D 130	-	1A	1A	1A	1A	1A
Rust Test-Proc B	ASTM D 665	-	Pass	Pass	Pass	Pass	Pass
Foam Seq I,II,III	ASTM D 892	ml/ml	0/0	0/0	0/0	0/0	0/0
Water Separability	ASTM D 1401	min	15	15	15	15	15

EIFFEL AXEL IND GEAR EP series

Eiffel Axel Ind Gear EP series of lubricants are supreme performance industrial gear oils, formulated with high quality base stocks fortified with sulfur-phosphorus additive system. They are designed to work efficiently in all types of enclosed gear drives with circulation or splash lubrication systems, where outstanding extreme pressure characteristics (EP/AW properties),extremely high load carrying capability and excellent demulsifying properties are desired. Moreover they offer extremely high protection against Micro pitting, wear and corrosion in enclosed gears and all types of oil lubricated bearings. Suitable for use in large & small spur bevel, spiral helical & herringbone gears.

Eiffel Axel Ind Gear EP	Test Method	Units	46	68	100	150	220	320	460	680
AGMA 9005	-	-	-	2 EP	3 EP	4 EP	5 EP	6 EP	7 EP	-
ISO Viscosity Grade	ISO 3448	-	46	68	100	150	220	320	460	680
Density @ 15 °C	ASTM D 4052	gm/cc	0.878	0.880	0.887	0.894	0.898	0.900	0.904	0.910
Viscosity @ 40 °C	ASTM D 445	cSt	46.8	68.9	100.8	150.2	220.5	320.9	460.8	680.5
Viscosity @ 100 °C	ASTM D 445	cSt	6.78	8.72	11.15	14.56	18.75	23.95	30.45	37.85
Viscosity Index	ASTM D 2270	-	98	98	95	95	95	95	95	92
Pour Point	ASTM D 97	°C	-27	-27	-24	-24	-24	-24	-15	-12
Flash Point (COC)	ASTM D 92	°C	216	218	226	238	248	248	256	282
FZG Scuff Fail Stage	A/8.3/90	-	12+	12+	12+	12+	12+	12+	12+	12+
Timken OK Load	ASTM D 2670	lb/kgf	65	65	65	75	75	75	75	75
Cu Strip Corrosion	ASTM D 130	-	1B	1B	1B	1B	1B	1B	1B	1B
Rust Test-Proc B	ASTM D 665	-	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Foam Seq I,II,III	ASTM D 892	ml/ml	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0

EIFFEL AQUACUT OIL

Eiffel Aquacut Oil	Test Method	Units	Water Soluble Cutting Oil
Color	ASTM D 1500	-	4.0
Appearance	Visual	-	Brown & Clear
Specific gravity @ 60/60 °F	ASTM D 4052	gm/cc	0.872
Viscosity @ 40 °C	ASTM D 445	cSt	40.5
pH value (1% solution in distilled H2O)	E70	-	9.0 max
Emulsion stability, 24 hour	ASTM D 3707	-	-
a. 5% in distilled water			Slight ring – no oil trace
b. 5% in 340 ppm CaCo3			2 ml cream – no oil trace
Pour Point	ASTM D 97	°C	-12 (max)
Flash Point (COC)	ASTM D 92	°C	185 (min)
Sulfur content	ASTM D 4951	%wt	0.35

EIFFEL NEAT CUT OILS

Eiffel Neat Cut Oils have been formulated from high quality base oils and advanced technology additive systems. Used on processing the components with low to medium tensile ferrous metals, non-ferrous metals such as aluminum and alloys.

Eiffel Neat Cut	Test Method	Units	10	15	22	32
ISO Viscosity Grade	ISO 3448	-	10	15	22	32
Density @ 15 °C	ASTM D 4052	gm/cc	0.835	0.840	0.845	0.855
Viscosity @ 40 °C	ASTM D 445	cSt	11.0	15.5	22.4	32.4
Viscosity @ 100 °C	ASTM D 445	cSt	2.85	3.56	4.67	5.60
Viscosity Index	ASTM D 2270	-	105	110	128	110
Pour Point	ASTM D 97	°C	-12	-21	-21	-21
Flash Point (COC)	ASTM D 92	°C	174	190	195	215
Copper Strip Corrosion	ASTM D 130	-	1A	1A	1A	1A

- DIN 51517-3 (CLP)
  - ISO 6743-6 & ISO 12925-1 (CKC/CKD)
  - US Steel 224
- David Brown
  - Flender BA 7300, table A
  - David Brown S1.53.101

Eiffel Aquacut Oil is high quality water soluble cutting oil specifically formulated for cutting and grinding operations of metalworking for both ferrous and non-ferrous components. These oils are formulated to provide outstanding emulsion stability & rust inhibition and woks satisfactorily for all types of processes involving fine carbon steels.

APPLICATIONS:  
Suitable for light machining such as drilling, milling, sawing and turning operations on a variety of alloys of aluminum and copper. Recommended for typical grinding operations where clear emulsions are required to avail rapid fine setting.

EIFFEL VELOCITY SM 10, 15, 22, 32

Eiffel Velocity SM range of lubricants are premium quality oils specifically formulated for the lubrication of high-speed machine elements in industrial sewing machines. These oils are formulated from very high quality hydro-treated, low

Eiffel Velocity	Test Method	Units	SM 10	SM 15	SM 22	SM 32
ISO Viscosity Grade	ISO 3448	-	10	15	22	32
Color	ASTM D 1500	-	<1.0	<1.0	<1.0	<1.0
Appearance	Visual	-	Light Color Clear Liquid			
Solubility	Visual	-	Soluble in Water (Milky-White Solution)			
Density @ 15 °C	ASTM D 4052	gm/cc	0.835	0.840	0.845	0.855
Viscosity @ 40 °C	ASTM D 445	cSt	11.0	15.5	22.4	32.4
Viscosity @ 100 °C	ASTM D 445	cSt	2.85	3.56	4.67	5.60
Viscosity Index	ASTM D 2270	-	105	110	128	110
Pour Point	ASTM D 97	°C	-12	-21	-21	-21
Flash Point (COC)	ASTM D 92	°C	174	190	195	215
Copper Strip Corrosion	ASTM D 130	-	1A	1A	1A	1A

EIFFEL ROCK DRILL OIL series

Eiffel Rock Drill Oil series of lubricants are supreme performance Pneumatic Rock Drill & Tool oils, formulated with high quality base stocks fortified with sulfur-phosphorus additive system. They are designed to work efficiently in pneumatically operated rock drills in underground and surface mining operations. They offer optimum adhesiveness and emulsification with water to avoid adverse effects of rust and corrosion. Their excellent wear protection property helps in reducing component wear and maintains adequate lubrication film to carry high loads.

Eiffel Rock Drill Oil	Test Method	Units	68	100	150	220	320	460
ISO Viscosity Grade	ISO 3448	-	68	100	150	220	320	460
Density @ 15 °C	ASTM D 4052	gm/cc	0.880	0.887	0.894	0.898	0.900	0.905
Viscosity @ 40 °C	ASTM D 445	cSt	68.9	100.8	150.2	220.5	320.9	460.9
Viscosity @ 100 °C	ASTM D 445	cSt	8.76	11.17	14.62	18.85	24.10	30.54
Viscosity Index	ASTM D 2270	-	98	95	95	95	95	95
Pour Point	ASTM D 97	°C	-27	-24	-24	-21	-18	-12
Flash Point (COC)	ASTM D 92	°C	218	226	238	248	256	268
Copper Strip Corrosion	ASTM D 130	-	1B	1B	1B	1B	1B	1B
Rust Test-Proc B	ASTM D 665	-	Pass	Pass	Pass	Pass	Pass	Pass
Foam Seq I,II,III	ASTM D 892	ml/ml	0/0	0/0	0/0	0/0	0/0	0/0

EIFFEL THERMIC FLUID series

Eiffel Thermic Fluid series are high performance heat transfer oils formulated with highly refined basestocks, intended for use in closed and indirect heating installations. They provide exceptional resistance tothermal cracking and chemical oxidation, thus flash point of these oils will not decrease significantly inservice. Moreover, they are thermally stable and are capable of an extremely long service oil life, without deposit formation or increase in viscosity.

Eiffel Thermic Fluid	Test Method	Units	32	46	68
ISO Viscosity Grade	ISO 3448	-	32	46	68
Density @ 15 °C	ASTM D 4052	gm/cc	0.860	0.865	0.880
Viscosity @ 40 °C	ASTM D 445	cSt	32.4	46.8	68.9
Viscosity @ 100 °C	ASTM D 445	cSt	5.38	6.78	8.72
Viscosity Index	ASTM D 2270	-	98	98	98
Pour Point	ASTM D 97	°C	-12	-12	-21
Flash Point (COC)	ASTM D 92	°C	224	230	234
Fire Point (COC)	ASTM D92	°C	255	260	268
Micro-Conradson Residue	ASTM D 4530	%wt	0.05 (max)	0.05 (max)	0.05 (max)
Copper Strip Corrosion	ASTM D 130	-	1B	1B	1B
Rust Characteristics Proc B	ASTM D 665	-	Pass	Pass	Pass
Foam Seq I,II,III	ASTM D 892	ml/ml	10/0	10/0	10/0

EIFFEL ENGAS ESP SERIES

Eiffel Engas ESP series are high quality gas engine oils specifically blended with severely refined high quality Group II base stocks and sophisticated additive technology with low ash and optimum phosphorus/zinc content to ensure outstanding engine performance and protection, intended for use in highly-rated spark ignition natural gas, bio-gas and dual-fueled four-stroke engines which require low ash engine lubricants.

Eiffel Engas ESP	Test Method	Units	30	40
Density @ 15 °C	ASTM D 4052	gm/cc	0.885	0.890
Viscosity @ 100 °C	ASTM D 445	cSt	10.5	13.5
Viscosity @ 40 °C	ASTM D 445	cSt	86.5	124
Viscosity Index	ASTM D 2270	-	104	104
Pour Point	ASTM D 97	°C	-21	-21
Flash Point (COC)	ASTM D 92	°C	240	250
Sulfated Ash	ASTM D 874	Wt%	0.46	0.46
Total Base Number	ASTM D 2896	mg KOH/g	5.7	5.7
Phosphorus	ASTM D 4951	ppm	285	285

- DIN 51524 Part 2 HLP type
  - Denison HF-0 (T6H20C)
- ISO 11158 (HM fluids)
  - Cincinnati Machine P-62

- ISO 6743/4 Category PA

- API CF
  - GE Jenbacher 6E
  - MAN 3271-2
  - MWM Natural Gas/Biogas
- MTU
  - Waukesh
  - Caterpillar
  - Perkins



### EIFFEL ELECT OIL N-42 INHIBITED

Eiffel Elect Oil N-42 Inhibited Transformer oils are severely refined hydro-cracked / hydro-treated virgininhibited Naphthenic insulating oils with highest degree of purity and stability. It is manufactured from judiciously selected blend of

- Application  
Eiffel Elect Oil N-42 Inhibited Transformer oils are highly suitable for all grades of
- Power Transformers, Distribution Transformers
  - Circuit Breakers
  - Oil filled switches
  - X-ray equipment.

latest technology feed stocks, highly suitable for all grades of Power & distribution Transformers, Circuit Breakers, Oil filled switches and X-ray equipment.

Eiffel Elect Oil N-42 Inhibited Transformer oils conforms to and exceed the requirements of ASTM D 3487 Type II & IEC 60296:2012.

### EIFFEL ELECT OIL IH INHIBITED

Eiffel Elect Oil IH Inhibited Transformer oils are severely refined hydro-cracked / hydro-treated virgin inhibited insulating oils with highest degree of purity and stability. It is manufactured from judiciously selected blend of latest technology feed stocks, which is highly suitable for all grades of Power

- Application  
Eiffel Elect Oil IH Inhibited Transformer oils are highly suitable for all grades of
- Power Transformers, Distribution Transformers

- Circuit Breakers
  - Oil filled switches
  - X-ray equipment.
- Eiffel Elect Oil IH Inhibited Transformer oils conforms to and exceed the requirements of ASTM D 3487 Type II & IEC 60296:2012 (Table 2: I – High Grade requirements)

Eiffel Elect Oil IH Inhibited Transformer oils are High Grade Inhibited Transformer oil has superior oxidation stability – meeting the high grade requirements as specified in IEC 60296:2012, high dielectric strength and are used in equipment requiring operations at high elevated temperatures & greater oxidation resistance.

### EIFFEL ELECT OIL N-42 UN- INHIBITED

Eiffel Elect Oil N-42 Un-inhibited Transformer oils are severely refined hydro-cracked / hydro-treated virgin un-inhibited Naphthenic insulating oils with highest degree of purity and stability. It is manufactured from judiciously selected blend of

- Application  
Eiffel Elect Oil N-42 Inhibited Transformer oils are highly suitable for all grades of
- Power Transformers, Distribution Transformers
  - Circuit Breakers
  - Oil filled switches
  - X-ray equipment.

Eiffel Elect Oil N-42 Un-inhibited Transformer oils conforms to and exceed the requirements of ASTM D 3487 Type I & IEC 60296:2012.

latest technology feed stocks, which is highly suitable for all grades of Power & distribution Transformers, Circuit Breakers, Oil filled switches and X-ray equipment.

### EIFFEL ELECT OIL UN- INHIBITED

Eiffel Elect Oil Series of Un-inhibited Transformer oils are severely refined hydro-cracked / hydro-treated virgin un-inhibited Mineral insulating oils with highest degree of purity and stability. It is manufactured from judiciously selected blend of latest

- Application  
Eiffel Elect Oil UN- Inhibited Transformer oils are highly suitable for all grades of
- Power Transformers, Distribution Transformers
  - Circuit Breakers
  - Oil filled switches
  - X-ray equipment.

Eiffel Elect Oil Series Un-inhibited Transformer oils conforms to and exceed the requirements of IS 335:2005, IEC 60296:2003, (superseding IEC 296:1982 Class I & Class II), BS 148:1998 Class I & Class II & JIS C2320 Class I.

technology feed stocks, which is highly suitable for all grades of Power & distribution Transformers, Circuit Breakers, Oil filled switches and X-ray equipment.

### EIFFEL OCEAN GUARD 15 series

Eiffel Ocean Guard 15 series is a range of high performance marine diesel engine oils formulated with premium quality base

Eiffel Ocean Guard	Test Method	Units	1530	1540	1550
SAE Grade	--	--	30	40	50
Density @ 15 °C	ASTM D 4052	gm/cc	0.892	0.900	0.904
Viscosity @ 100 °C	ASTM D 445	cSt	11.6	14.6	19.2
Viscosity @ 40 °C	ASTM D 445	cSt	103	145	218
Viscosity Index	ASTM D 2270	-	100	99	99
Pour Point	ASTM D 97	°C	-9	-9	-9
Flash Point (COC)	ASTM D 92	°C	245	268	276
Total Base Number	ASTM D 2896	mg KOH/g	15	15	15
Sulphated Ash	ASTM D 874	wt%	2.1	2.1	2.1

stocks and selected additives to ensure optimum performance and protection for trunk piston engines, operating on low sulphur distillate fuels. Suitable for heavy duty diesel engines in Marine and Industrial applications, where monograde oils are specified. It provides excellent protection in engines, against high temperature piston deposits, wear, corrosion and foaming under severe operating conditions.

•API CF

### EIFFEL OCEAN GUARD 20 series

Eiffel Ocean Guard 20 series is a range of high performance marine diesel engine oils formulated with premium quality base stocks and selected additives to ensure optimum performance and protection for trunk piston engines, operating on

Eiffel Ocean Guard	Test Method	Units	2030	2040	2050
SAE Grade	--	--	30	40	50
Density @ 15 °C	ASTM D 4052	gm/cc	0.892	0.900	0.904
Viscosity @ 100 °C	ASTM D 445	cSt	10.8	15.8	19.2
Viscosity @ 40 °C	ASTM D 445	cSt	94.0	164	218
Viscosity Index	ASTM D 2270	-	99	99	99
Pour Point	ASTM D 97	°C	-21	-18	-15
Flash Point (COC)	ASTM D 92	°C	245	268	276
Total Base Number	ASTM D 2896	mg KOH/g	20	20	20
Sulphated Ash	ASTM D 874	wt%	2.25	2.25	2.25

low/moderate sulphur distillate fuels. Suitable for heavy duty diesel engines in Marine and Industrial applications, where monograde oils are specified. It provides excellent protection in engines, against high temperature piston deposits, wear, corrosion and foaming under severe operating conditions.

•API CF

### EIFFEL OCEAN GUARD 30 series

Eiffel Ocean Guard 30 series is a range of high performance 30 TBN marine diesel engine oils formulated with premium quality base stocks and high performance additive detergent technology to ensure optimum performance and protection

Eiffel Ocean Guard	Test Method	Units	3030	3040	3050
SAE Grade	--	--	30	40	50
Density @ 15 °C	ASTM D 4052	gm/cc	0.892	0.900	0.904
Viscosity @ 100 °C	ASTM D 445	cSt	11.6	14.6	19.2
Viscosity @ 40 °C	ASTM D 445	cSt	103	145	218
Viscosity Index	ASTM D 2270	-	100	99	99
Pour Point	ASTM D 97	°C	-9	-9	-6
Flash Point (COC)	ASTM D 92	°C	245	268	276
Total Base Number	ASTM D 2896	mg KOH/g	30	30	30
Sulphated Ash	ASTM D 874	wt%	3.7	3.7	3.7

for trunk piston engines. They are designed to operate efficiently in severe residual-fuelled medium-speed diesel applications found in marine and stationary power industries. These TPEOs provide outstanding residual fuel compatibility and excellent engine cleanliness, especially in crankcase, camshaft areas, ring belt and piston under crowns operating under severe conditions.

•API CF

### EIFFEL OCEAN GUARD 40 series

Eiffel Ocean Guard 40 series is a range of high performance 40 TBN marine diesel engine oils formulated with premium quality base stocks and high performance additive detergent technology to ensure optimum performance and protection for highly

Eiffel Ocean Guard	Test Method	Units	4030	4040	4050
SAE Grade	--	--	30	40	50
Density @ 15 °C	ASTM D 4052	gm/cc	0.892	0.900	0.904
Viscosity @ 100 °C	ASTM D 445	cSt	11.6	14.6	19.2
Viscosity @ 40 °C	ASTM D 445	cSt	103	145	218
Viscosity Index	ASTM D 2270	-	100	99	99
Pour Point	ASTM D 97	°C	-9	-9	-6
Flash Point (COC)	ASTM D 92	°C	245	268	276
Total Base Number	ASTM D 2896	mg KOH/g	40	40	40
Sulphated Ash	ASTM D 874	wt%	4.8	4.8	4.8

rated trunk piston engines. They are designed to operate efficiently in severe residual-fuelled medium-speed diesel applications found in marine and stationary power industries. These TPEOs provide outstanding residual fuel compatibility and excellent engine cleanliness, especially in crankcase, camshaft areas, ring belt and piston under crowns operating under severe conditions.

•API CF



EIFFEL OCEAN GUARD MDCL 7050

Eiffel Guard MDCL 7050 is extra high performance 70 TBN marine diesel engine cylinder oil formulated with premium quality base stocks and high performance additive detergent & special anti-wear technology. This cylinder oil ensures optimum performance and excellent protection in low speed 2-stroke marine diesel engines, operating on severe residual fuels & HFO with sulfur content in range of 1.0% to 3.5%. It is designed to provide excellent anti-wear properties to potentially reduce liner & ring wear and demonstrate outstanding anti-scuffing property under severe operating conditions.

Eiffel Ocean Guard MDCL	Test Method	Units	7050
SAE Grade	--	--	50
Density @ 15 °C	ASTM D 4052	gm/cc	0.935
Viscosity @ 100 °C	ASTM D 445	cSt	20.4
Viscosity @ 40 °C	ASTM D 445	cSt	240.9
Viscosity Index	ASTM D 2270	-	99
Pour Point	ASTM D 97	°C	-9
Flash Point (COC)	ASTM D 92	°C	276
Total Base Number	ASTM D 2896	mg KOH/g	70

EIFFEL OCEAN GUARD MDCL 5550

Eiffel Ocean Guard MDCL 5550 is an extra high performance 55 TBN marine diesel engine cylinder oil formulated with premium quality base stocks and high performance additive detergent & special anti-wear technology. This cylinder oil ensures optimum performance and excellent protection in low speed 2-stroke marine diesel engines, operating on severe residual fuels & HFO with high sulfur content in range of 1.0% to 3.5%. It is designed to provide excellent anti-wear properties to potentially reduce liner & ring wear and demonstrate outstanding anti-scuffing property under severe operating conditions. This MDCL eliminates the need of vessels for lubricant change, when sailing in and out of ECAs.

Eiffel Ocean Guard MDCL	Test Method	Units	5550
SAE Grade	--	--	50
Density @ 15 °C	ASTM D 4052	gm/cc	0.935
Viscosity @ 100 °C	ASTM D 445	cSt	20.4
Viscosity @ 40 °C	ASTM D 445	cSt	240.9
Viscosity Index	ASTM D 2270	-	99
Pour Point	ASTM D 97	°C	-21
Flash Point (COC)	ASTM D 92	°C	276
Total Base Number	ASTM D 2896	mg KOH/g	55

EIFFEL OCEAN GUARD MDCL 4050

Eiffel Ocean Guard MDCL 4050 is an extra high performance 40 TBN marine diesel engine cylinder oil formulated with premium quality base stocks and high performance additive detergent & special anti-wear technology. This cylinder oil ensures optimum performance and excellent protection in low speed 2-stroke marine diesel engines, operating on severe residual fuels & HFO with high sulfur content in range of 1.0%to 2.5%. It is designed to provide excellent anti-wear properties to potentially reduce liner & ring wear anddemonstrate outstanding anti-scuffing property under severe operating conditions. This MDCL eliminatethe need of vessels for lubricant change, when sailing in and out of ECAs.

Eiffel Ocean Guard MDCL	Test Method	Units	4050
SAE Grade	--	--	50
Density @ 15 °C	ASTM D 4052	gm/cc	0.935
Viscosity @ 100 °C	ASTM D 445	cSt	20.4
Viscosity @ 40 °C	ASTM D 445	cSt	240.9
Viscosity Index	ASTM D 2270	-	99
Pour Point	ASTM D 97	°C	-15
Flash Point (COC)	ASTM D 92	°C	276
Total Base Number	ASTM D 2896	mg KOH/g	40

EIFFEL OCEAN GUARD SO 6 series

Eiffel Ocean Guard SO 6 series is a range of high performance marine multipurpose system oils formulated with high quality paraffinic base stocks and balanced additive system to ensure optimum performance and excellent protection in low speed, high output cross head marine engines, operating on residual fuels. It has sufficient alkalinity to neutralize any strong acidic combustion products which may enter into the crankcase and it demonstrates high load carrying ability under severe operating conditions.

Eiffel Ocean Guard SO	Test Method	Units	630	640
SAE Grade	--	--	30	40
Density @ 15 °C	ASTM D 4052	gm/cc	0.892	0.900
Viscosity @ 100 °C	ASTM D 445	cSt	11.6	14.6
Viscosity @ 40 °C	ASTM D 445	cSt	103	145
Viscosity Index	ASTM D 2270	-	100	99
Pour Point	ASTM D 97	°C	-21	-21
Flash Point (COC)	ASTM D 92	°C	245	268
Total Base Number	ASTM D 2896	mg KOH/g	6	6
Sulphated Ash	ASTM D 874	wt%	0.8	0.8

EIFFEL RAIL GUARD ZF 1300 series

Eiffel Rail Guard ZF 1300 series is a zinc-free range of lubricants formulated with premium quality base stocks and advanced additive technology to ensure optimum performance and protection in heavily loaded diesel engines manufactured by Electro-Motive Diesel (EMD), CAT and General Electric (GE). Suitable for diesel engines with high break mean effective pressure (BMEP) and high horse power fitted on Railroad Locomotives, Marine and Industrial applications, operating on distillate fuels with sulfur content up to 1.5 percent. Meets & exceeds lubricant specifications of GE LMOA Generation-4 Long Life/Generation-5. Chlorine-free nature of lubricant meets the Pollutant Regulation for used oil recycling for easier disposal.

Eiffel Rail Guard ZF 1300	Test Method	Units	SAE 40	SAE 20W40
Density @ 15 °C	ASTM D 4052	gm/cc	0.895	0.885
Viscosity @ 100 °C	ASTM D 445	cSt	14.6	14.9
Viscosity @ 40 °C	ASTM D 445	cSt	145	132
Viscosity Index	ASTM D 2270	-	99	115
Pour Point	ASTM D 97	°C	-15	-24
Flash Point (COC)	ASTM D 92	°C	245	230
Total Base Number	ASTM D 2896	mg KOH/g	13	13
Sulphated Ash	ASTM D 874	wt%	1.45	1.45
Zinc content	ASTM D 4951	ppm	<10	<10
Chlorine content	ASTM D 4951	ppm	<50	<50

- API CD • US Military MIL-L-2104C
- API CF/CF-2/CD • GE Generation 4 Long Life • Electro-Motive Diesel (EMD) • Caterpillar 3600 series

EIFFEL XTREME PROTECT GREASE EP series

Eiffel Xtreme Protect Grease EP series are high performance greases, formulated with lithium complex based thickeners, high viscosity index base oils and extreme pressure additive system to provide excellent protection against wear, rusting and water washout. They are available in NLGI grades ranging from 00 to 3 with base oil viscosity of ISO VG 220. They are suitable for most types of Automotive and Industrial applications, including heavy-duty Marine applications where high temperatures, heavy loads and extreme unit pressures are present. EP 1, 2, 3 & 2 Molygreases are suitable for operating temperatures range from -20°C to 140°C, while EP 00 & 0 greases are suitable for operating temperatures range from -25°C to 130°C.

Eiffel Xtreme Protect Grease	Test Method	Units	EP 2	EP 3
NLGI Grade	ASTM D 217	--	2	3
Thickener Type	--	--	Lithium Complex	Lithium Complex
Penetration, Worked @ 25 °C	ASTM D 217	0.1mm	265-295	220-250
Viscosity @ 40 °C	ASTM D 445	cSt	220	220
Dropping Point	ASTM D 566	°C	230 (min)	230 (min)
4-Ball Wear, Scar	ASTM D 2266	mm	0.4	0.4
4-Ball Weld Load	ASTM D 2596	Kg	315	315

EIFFEL PROTECT MOLY GREASE EP series

Eiffel Protect Moly Grease EP series are high performance greases, formulated with lithium based thickeners fortified with Molybdenum Disulfide (MoS2) solid lubrication, high quality base oils and extreme pressure additive system to provide excellent protection against wear, rusting and water washout. They are available in NLGI grades ranging from 00 to 3 with base oil viscosity of ISO VG 460 & 320. They are suitable for most types of Automotive and Industrial applications, including heavy-duty Marine applications where high temperatures, heavy shock loads and extreme unit pressures are present. Moly Grease EP 1, 2, & 3 greases are suitable or operating temperatures range from -20°C to 130°C, while Moly Grease EP 00 & 0 greases are suitable for operating temperatures range from -25°C to 120°C.

Eiffel Protect Moly Grease	Test Method	Units	EP 2	EP 3
NLGI Grade	ASTM D 217	--	2	3
Thickener Type	--	--	Li-Moly	Li-Moly
Penetration, Worked @ 25 °C	ASTM D 217	0.1mm	265-295	220-250
Viscosity @ 40 °C	ASTM D 445	cSt	320	320
Dropping Point	ASTM D 566	°C	190 (min)	190 (min)
4-Ball Wear, Scar	ASTM D 2266	mm	0.4	0.4
4-Ball Weld Load	ASTM D 2596	Kg	315	315

EIFFEL PROTECT GREASE EP series

Eiffel Protect Grease EP series are high performance greases, formulated with lithium based thickeners and extreme pressure additive system to provide extra protection against wear, rusting and water washout. They are available in NLGI grades ranging from 000 to 3 with base oil viscosity of ISO VG 150, 320 & 460. They are suitable for most types of Automotive and Industrial applications, including heavy-duty applications where high unit pres-sures are present. EP 0, 1, 2 & 3 greases are suitable for operating temperatures range from -20°C to 130°C, while EP 000 & 00 greases are suitable for operating temperatures range from -25°C to 120°C.

Eiffel Protect Grease	Test Method	Units	EP 000	EP 00	EP 0	EP 1	EP 2	EP 3
NLGI Grade	ASTM D 217	--	000	00	0	1	2	3
ISO Grade	6743-9	--	L-XCBEB 000	L-XCBEB 00	L-XBCEB 0	L-XBCEB 1	L-XBCEB 2	L-XBCEB 3
DIN Grade	51502	--	GP000G -30	GP00G-30	MP0K -25	KP1K -30	KP2K -25	KP3K -20
Thickener Type	--	--	Lithium	Lithium	Lithium	Lithium	Lithium	Lithium
Penetration, Worked @ 25 °C	ASTM D 217	0.1 mm	445-475	400-430	355-385	310-340	265-295	220-250
Viscosity @ 40 °C	ASTM D 445	cSt	460	320	160	160	160	160
Dropping Point	ASTM D 566	°C	-	-	190 (min)	190 (min)	190 (min)	190 (min)
4-Ball Wear, Scar	ASTM D 2266	mm	0.5	0.5	0.4	0.4	0.4	0.4
4-Ball Weld Load	ASTM D 2596	Kg	240	240	250	250	250	250

EIFFEL PROTECT GREASE OGL series

Eiffel Protect Grease OGL series are high performance semi-fluid greases, formulated with lithium based thickeners fortified with Graphite solid lubrication, high viscosity base oils and advanced additive system to provide excellent protection against wear, rusting and grease fling off. They are available in NLGI grades ranging from 00 to 3 with base oil viscosity of ISO VG 460. They are suitable for lubricating large, slow to medium speed, heavily loaded Industrial gears, including heavy-duty Marine applications where heavy loads and extreme unit pressures are present. The soft consistency and low temperature properties of OGL greases, makes it suitable to spray on applications operating under wide variety of conditions. These greases are free from lead, nitrite, chlorine and other solvents, hence reduces the impact on environment.

Eiffel Protect Grease	Test Method	Units	OGL 00	OGL 460	OGL 1	OGL 1.5	OGL 3
NLGI Grade	ASTM D 217	--	00	0/1	1	1.5	3
Thickener Type	--	--	Li- Graphite	Li- Graphite	Li- Graphite	Li- Graphite	Li- Graphite
Penetration, Worked @ 25 °C	ASTM D 217	0.1mm	400-430	330-360	310-340	290-320	220-250
Viscosity @ 40 °C	ASTM D 445	cSt	460	460	460	460	460
Dropping Point	ASTM D 566	°C	190 (min)	190 (min)	190 (min)	190 (min)	190 (min)
4-Ball Wear, Scar	ASTM D 2266	mm	0.5	0.5	0.5	0.5	0.4
4-Ball Weld Load	ASTM D 2596	Kg	750	750	750	750	750