



**LUBSHIELD**

**ENGINE OIL & LUBRICANTS**





## Introduction:

We are manufacturer and exporter of various kinds of engine oil & lubricants. Our factory is located in IRAN.

Our products are designed for all the segments from Two Stroke (2T) Engine Oils for two wheelers/bikes to Hydraulic and Turbine Oils for Industrial plants.

Our main markets are Middle East (ME) , Africa and CIS countries .

We are using fully automated Blending system with latest Machineries and technologies.

Accessibility to high quality raw material with competitive prices is our main advantage to serve respectful customers world-wide.

Following Pages will introduce part of our capabilities and Products.







A. ENGINE OIL

- API : SC/CC
- API : SF/CD
- API : SJ/CF
- API : SL/CF
- API : SM
- API : SN
- API : CD
- API : CH - 4
- API : C I - 4

B. HYDRAULIC OIL

- 32
- 46
- 68
- 100
- 150
- 220
- 320
- 460

C. Gear Oil

- ATF II - D
- ATF III - G

D. Grease

- Calcium Grease
- Lithium Grease

E. Anti-Freeze  
Coolant

SAE J1034





**LUBSHIELD**

**Gasoline Engine Oil**  
**API : SC/CC**

Gasoline Engine Oil  
API : SC/CC

### Product Intorduction :

LUBSHIELD Engine Oil API SC/CC is a blend of highly refined mineral oils & high performance additives to ensure extreme performance. It is recommended for use in a wide range of applications including gasoline and light duty diesel engines found in motorcycles, passenger cars, agricultural and construction machineries and certain hydraulic systems. They are blended to meet API service classification SC/CC requirements.

### APPLICATIONS:



### TYPICAL PROPERTIES

PARAMETERS	TEST METHOD	UNIT	TYPICAL TEST RESULT	
SAE Grade			40	50
Color	ASTM D -1500	-	L 3.0	L 3.5
Kinermatic Viscosity 104 F/ 40 C	ASTM D -7042	cST	TBR	TBR
kinermatic viscosity 212 F/ 100 C	ASTM D -7042	cST	14.8	19.6
Viscosity Index (min)	ASTM D -2270	-	95	98
S.P gravity 60 F	ASTM D -4052	g/Cm <sup>3</sup>	0.888	0.895
Flash Point (min)	ASTM D -92	°C	230	240
pour point (max)	ASTM D -97	°C	-15	-15
TBN	ASTM D -2896	Mg KOH/G.	4	4
NOACK (max)	D -5800	Wt. %	10	10







**LUBSHIELD**

Gasoline Engine Oil  
API : SF/CD

Gasoline Engine Oil  
API : SF/CD

### Product Intorduction :

LUBSHIELD Multigrade Engine Oil API SF/CD is a high performance lubricant designed to meet very severe performance requirements for a range of high-out engines. It is formulated from premium mineral base oil and specialized additives for service in gasoline and diesel engines where SF/CD requirement is recommended.

### APPLICATIONS:



### TYPICAL PROPERTIES

PARAMETERS	TEST METHOD	UNIT	TYPICAL TEST RESULT		
SAE Grade			20W-50	15W- 40	40
Color	ASTM D -1500	-	L 3.0	L 3.0	L 3.0
Kinermatic Viscosity 104 F/ 40 C	ASTM D -7042	cSt	TBR	TBR	TBR
kinermatic viscosity 212 F/ 100 C	ASTM D -7042	cSt	19	15.3	15
Viscosity Index (min)	ASTM D -2270	-	125	135	95
S.P gravity 60 C	ASTM D -4052	g/cm <sup>3</sup>	0.8880	0.8840	0.8900
Flash Point (min)	ASTM D -92	°C	230	220	240
pour point (max)	ASTM D -97	°C	-24	-27	-15
TBN	ASTM D -2896	Mg KOH/g.	6	6	6
CCS , CP (max)	D -5293	Wt.%	9500(-15)	7000(-20)	N/A
NOACK (max)	D -5800	Wt.%	10	15	4



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**LUBSHIELD**

**Gasoline Engine Oil**  
API : SJ/CF

Gasoline Engine Oil  
API : SJ/CF

### Product Intorduction :

LUBSHIELD API SJ/CF is a high quality engine oil designed to meet requirements of passenger car and light truck engines were AOI SJ performance is recommended. it is for use in service typical of gasoline engines in present and earlier passenger cars, vans ,and ligh trucks operating under manufacturers recommended maintenance procedures.This oils special combination of detergent and dispersant additives controls piston and ring deposits that can adversely affect power and performance.

### APPLICATIONS:



### TYPICAL PROPERTIES

PARAMETERS	TEST METHOD	UNIT	TYPICAL TEST RESULT			
SAE Grade			20W -50	15W -40	10W -40	0W - 40
Color	ASTM D -1500	-	L 3.5	L 2.5	L 2.0	L 1.5
Kinermatic Viscosity 104 F/ 40 C	ASTM D -7042	cSt	TBR	TBR	TBR	TBR
kinermatic viscosity 212 F/ 100 C	ASTM D -7042	cSt	19	15	14.5	14
Viscosity Index (min)	ASTM D -2270	-	130	135	150	160
S.P gravity 60 C	ASTM D -4052	g/cm <sup>3</sup>	0.8914	0.8810	0.8635	0.8434
Flash Point (min)	ASTM D -92	°C	220	220	220	220
pour point (max)	ASTM D -97	°C	-24	-30	-33	-42
TBN	ASTM D -2896	Mg KOH/g.	7.50	7.50	7.50	7.50
CCS , CP (max)	D -5293	Wt.%	9500(-15)	7000(-20)	7000(-25)	6200(-35)
NOACK (max)	D -5800	Wt.%	10	15	15	15



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**LUBSHIELD**

**Gasoline Engine Oil**  
API : SL/CF

Gasoline Engine Oil  
API : SL/CF

### Product Intorduction :

LUBSHIELD API SL/CF is formulated with synthetic technology base oil and high performance additives, which is optimized to provide outstanding protection, Oxidization resistance and lubricity. It is for use in service typical of gasoline engines in present and earlier passenger cars, sports utility vehicles, vans and light trucks operating under vehicle manufacturers recommended maintenance procedures. This product may be used where API Service Category SL/CF and earlier categories are recommended.

**APPLICATIONS:** 



### TYPICAL PROPERTIES

PARAMETERS	TEST METHOD	UNIT	TYPICAL TEST RESULT						
			20W - 50	10W - 60	10W - 40	5W - 40	5W - 50	0W - 40	0W - 30
SAE Grade			L 3.0	L 2.0	L 2.0	L 1.5	L 1.5	L 1.5	L 2.0
Color	ASTM D -1500	-	TBR	TBR	TBR	TBR	TBR	TBR	TBR
Kinermatic Viscosity 104 F/ 40 C	ASTM D -7042	cSt	20.0	23.50	14.50	14.50	19.00	14.00	11.50
kinermatic viscosity 212 F/ 100 C	ASTM D -7042	cSt	125	180	150	170	170	170	170
Viscosity Index (min)	ASTM D -2270	-	0.8940	0.8563	0.8657	0.8543	0.8543	0.8441	0.8468
S.P gravity 60 C	ASTM D -4052	g/cm <sup>3</sup>	230	220	220	220	220	220	220
Flash Point (min)	ASTM D -92	°C	-27	-33	-33	-39	-39	-42	-42
pour point (max)	ASTM D -97	°C	8	8	8	8	8	8	8
TBN	ASTM D -2896	Mg KOH/g.	9500(-15)	7000(-25)	7000(-25)	6600(-30)	6600(-30)	6200(-35)	6200(-35)
CCS , CP (max)	D -5293	Wt.%	10	15	15	15	15	15	15
NOACK (max)	D -5800	Wt.%							

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**LUBSHIELD**

**Gasoline Engine Oil**  
API : SM<sub>CF</sub>

Gasoline Engine Oil  
API : SM<sub>CF</sub>

### Product Introduction :

LUBSHIELD API SM Synthetic Motor Oil is a high quality lubricant that incorporates anti-wear protection, as well as, protection against sludge and deposit formation. This multi-grade oil meets the highest API quality requirement (SM) for gasoline engine passenger cars, sport utility vehicles, vans and light trucks. These oils are designed to provide improved oxidation resistance, improved deposit protection, better wear protection, and better low-temperature performance over the life of the oil.

### APPLICATIONS:



### TYPICAL PROPERTIES

PARAMETERS	TEST METHOD	UNIT	TYPICAL TEST RESULT						
			10W - 60	10W - 40	10W - 30	5W - 40	5W - 50	0W - 40	0W - 30
SAE Grade			10W - 60	10W - 40	10W - 30	5W - 40	5W - 50	0W - 40	0W - 30
Color	ASTM D -1500	-	L 2.0	L 2.0	L 2.0	L 2.0	L 2.0	L 2.0	L 2.0
Kinematic Viscosity 104 F/ 40 C	ASTM D -7042	mm <sup>2</sup> /s	TBR	TBR	TBR	TBR	TBR	TBR	TBR
kinematic viscosity 212 F/ 100 C	ASTM D -7042	mm <sup>2</sup> /s	24.50	15.00	12.00	14.50	19.50	14.00	11.50
Viscosity Index (min)	ASTM D -2270	-	150	180	150	180	170	170	170
S.P gravity 60 C	ASTM D -4052	g/cm <sup>3</sup>	0.8571	0.8571	0.8545	0.8571	0.8576	0.8468	0.8497
Flash Point (min)	ASTM D -92	°C	220	220	220	220	220	220	220
pour point (max)	ASTM D -97	°C	-33	-33	-33	-39	-39	-42	-42
TBN	ASTM D -2896	Mg KOH/g.	10.50	10.50	10.50	10.50	10.50	10.50	10.50
CCS , CP (max)	D -5293	Wt.%	7000(-25)	7000(-25)	7000(-25)	6600(-30)	6600(-30)	6200(-35)	6200(-35)
NOACK (max)	D -5800	Wt.%	15	15	15	15	15	15	15

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**LUBSHIELD**

**Gasoline Engine Oil**  
**API : SN**

Gasoline Engine Oil  
API : SN

### Product Introduction :

LUBSHIELD API SN, Synthetic passenger car motor oil is specifically designed for high performance engine with higher compression ratio. It is recommended for use in engines requiring low viscosity lubricants under all operating conditions.

It is designed to provide improved high temperature deposit protection for pistons, more stringent sludge control, and seal compatibility

**APPLICATIONS:** 



### TYPICAL PROPERTIES

PARAMETERS	TEST METHOD	UNIT	TYPICAL TEST RESULT							
SAE Grade			10W - 60	10W - 40	5W - 50	5W - 40	5W - 30	0W - 40	0W - 30	0W - 20
Color	ASTM D -1500	-	L 2.0	L 2.0	L 2.0	L 2.0	L 2.0	L 2.0	L 2.0	L 2.0
Kinematic Viscosity 104 F/ 40 C	ASTM D -7042	cSt	TBR	TBR	TBR	TBR	TBR	TBR	TBR	TBR
kinematic viscosity 212 F/ 100 C	ASTM D -7042	cSt	23.50	14.50	19.00	14.50	12.00	14.00	11.50	8.50
Viscosity Index (min)	ASTM D -2270	-	180	150	170	170	170	170	170	163
S.P gravity 60 C	ASTM D -4052	g/cm <sup>3</sup>	0.8571	0.8564	0.8564	0.8567	0.8545	0.8481	0.8496	0.8490
Flash Point (min)	ASTM D -92	°C	220	220	220	220	220	220	220	220
pour point (max)	ASTM D -97	°C	-33	-33	-39	-39	-39	-42	-42	-42
TBN	ASTM D -2896	Mg KOH/g.	11	11	11	11	11	11	11	11
CCS , CP (max)	D -5293	Wt.%	7000(-25)	7000(-25)	6600(-30)	6600(-30)	6600(-30)	6200(-35)	6200(-35)	6200(-35)
NOACK (max)	D -5800	Wt.%	15	15	15	15	15	15	15	15

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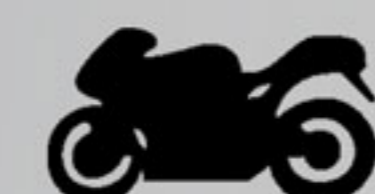
Gasoline Engine Oil  
API : CD

Gasoline Engine Oil  
API : CD

### Product Intorduction :

LUBSHIELD API CD motor oil is a specially formulated super grade crank case diesel lubricant for all type of passenger cars, vans and light trucks operating under severe driving condition throughout the year. This oil is blended with highly refined paraffinic base oil and incorporated with effective additives and shear stable viscosity index improvers.

### APPLICATIONS:



DIESEL



### TYPICAL PROPERTIES

PARAMETERS	TEST METHOD	UNIT	TYPICAL TEST RESULT		
SAE Grade			20W - 50	50	40
Color	ASTM D -1500	-	L3.0	L3.5	L 3.5
Kinermatic Viscosity 104 F/ 40 C	ASTM D -7042	cSt	TBR	TBR	TBR
kinermatic viscosity 212 F/ 100 C	ASTM D -7042	cSt	20.5	21	15
Viscosity Index (min)	ASTM D -2270	-	125	125	100
S.P gravity 60 C	ASTM D -4052	Kg/L	0.889	0.889	0.894
Flash Point (min)	ASTM D -92	°C	225	240	240
pour point (max)	ASTM D -97	°C	-24	-21	-21
TBN	ASTM D -2896	Mg KOH/g.	8	8	8
CCS , CP (max)	D -5293	Wt.%	9500(-15)	N/A	N/A
NOACK (max)	D -5800	Wt.%	10	4	4



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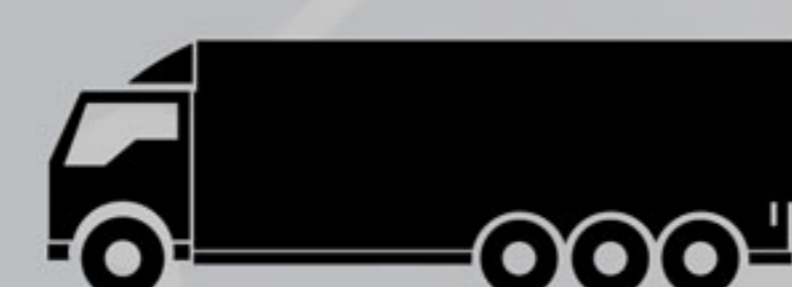
Gasoline Engine Oil  
API : CH - 4

Gasoline Engine Oil  
API : CH - 4

### Product Introduction :

LUBSHIELD Diesel Engine Oil API CH- 4 combines a high quality base stock with a proprietary, balanced additive system having a combination of metallic detergents, ashless dispersants and multi-purpose inhibitors. This oil assures superior control of oil thickening caused by soot buildup and high temperature oxidation, and also provides outstanding resistance to varnish deposits and corrosion.

### APPLICATIONS:



**DIESEL**



### TYPICAL PROPERTIES

PARAMETERS	TEST METHOD	UNIT	TYPICAL TEST RESULT	
SAE Grade			20W - 50	15W - 40
Color	ASTM D -1500	-	L3.0	L3.5
Kinematic Viscosity 104 F/ 40 C	ASTM D -7042	cSt	TBR	TBR
kinematic viscosity 212 F/ 100 C	ASTM D -7042	cSt	19.5	15.5
Viscosity Index (min)	ASTM D -2270	-	125	135
S.P gravity 60 C	ASTM D -4052	g/cm <sup>3</sup>	0.888	0.884
Flash Point (min)	ASTM D -92	° C	235	225
pour point (max)	ASTM D -97	° C	-24	-27
TBN	ASTM D -2896	Mg KOH/gr	13	13
CCS , CP (max)	D -5293	Wt.%	9500(-15)	7000(-20)
NOACK (max)	D -5800	Wt.%	10	15



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**LUBSHIELD**

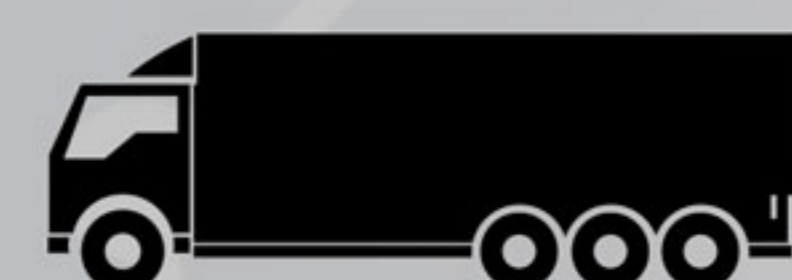
Gasoline Engine Oil  
API : CI- 4

Gasoline Engine Oil  
API : CI - 4

### Product Intorduction :

LUBSHIELD Diesel Engine Oil API CI- 4 combines a high quality base stock with a proprietary, balanced additive system having a combination of metallic detergents, ashless dispersants and multi-purpose inhibitors. This oil assures superior control of oil thickening caused by soot buildup and high temperature oxidation, and also provides outstanding resistance to varnish deposits and corrosion.

### APPLICATIONS:



**DIESEL**



### TYPICAL PROPERTIES

PARAMETERS	TEST METHOD	UNIT	TYPICAL TEST RESULT		
SAE Grade			20W-50	15W-40	10W-40
Color	ASTM D -1500	-	L3.0	L2.5	L2.0
Kinermatic Viscosity 104 F/ 40 C	ASTM D -7042	cSt	TBR	TBR	TBR
kinermatic viscosity 212 F/ 100 C	ASTM D -7042	cSt	20.00	14.50	14.50
Viscosity Index (min)	ASTM D -2270	-	125	135	150
S.P gravity 60 C	ASTM D -4052	g/cm <sup>3</sup>	0.890	0.880	0.880
Flash Point (min)	ASTM D -92	° C	230	220	220
pour point (max)	ASTM D -97	° C	-24	-30	-33
TBN	ASTM D -2896	Mg KOH/gr	13.00	13.00	13.00
CCS , CP (max)	D -5293	Wt.%	9500(-15)	7000(-20)	7000(-25)
NOACK (max)	D -5800	Wt.%	15	15	15







**LUBSHIELD**

**Gasoline Engine Oil  
(GEAR OIL (API: GL- 5))**

Gasoline Engine Oil  
(GEAR OIL (API: GL- 5))

### Product Introduction :

LUBSHIELD Diesel Engine Oil API CI- 1 - CI- 5 combines a high quality base stock with a proprietary, balanced additive system having a combination of metallic detergents, ashless dispersants and multi-purpose inhibitors. This oil assures superior control of oil thickening caused by soot buildup and high temperature oxidation, and also provides outstanding resistance to varnish deposits and corrosion.

### APPLICATIONS:

Industrial gears sets where extreme pressure gear oils are required. Hypoid, helical, spiral-bevel and worm gear in differentials, transmissions, final drives and steering mechanisms.

### TYPICAL PROPERTIES

PARAMETERS	TEST METHOD	UNIT	TYPICAL TEST RESULT		
SAE Grade			85W - 140	85W - 90	75W - 90
Color	ASTM D -1500	-	L 3.0	L 3.0	L 3.0
Kinematic Viscosity 104 F/ 40 C	ASTM D -7042	cSt	TBR	TBR	TBR
kinematic viscosity 212 F/ 100 C	ASTM D -7042	cSt	29.00	18.00	16.50
Viscosity Index (min)	ASTM D -2270	-	120	120	140
S.P gravity 60 C	ASTM D -4052	g/cm <sup>3</sup>	0.890	0.890	0.860
Flash Point (min)	ASTM D -92	°C	230	230	210
pour point (max)	ASTM D -97	°C	-21	-27	-39
TAN	ASTM D -664	Mg KOH/gr	1.50	1.50	1.50







LUBSHIELD

(HYDRAULIC OIL )

(HYDRAULIC OIL )

### Product Introduction :

LUBSHIELD HYDRAULIC OIL is polyol ester type hydraulic fluids formulated with selected additives,available in four ISO viscosity grades: 68 ,46 ,32 and 100. This biodegradable and environmentally responsible fluid, which does not contain water, mineral oil or phosphate esters, can be used in place of a conventional antiwear hydraulic fluid in applications where there is a risk of fire or accidental environmental contamination, where it achieves excellent hydraulic fluid performance

### APPLICATIONS:

- Hydraulic applications where there is a risk of fire or of accidental environmental contamination, where aconventional mineral-oil based anti-wear hydraulic fluid would present a fire hazard or pollution hazard.



### TYPICAL PROPERTIES

PARAMETERS	TEST METHOD	UNIT	TYPICAL TEST RESULT					
Grade			150	100	68	46	32	22
kinematic viscosity 104 F/ 40 C	ASTM D-1500	-	L3.0	L3.0	L2.0	L2.0	L2.0	L2.0
kinematic viscosity 212 F/ 100 C	ASTM D-7042	cSt	135-165	90/0-110	61/2-74/8	41/1-50/6	28/8-35/2	19/8-24.2
Viscosity Index (min)	ASTM D-7042	cSt	TBR	TBR	TBR	TBR	TBR	TBR
Air Release at 50 C	ASTM D-4052	g/m <sup>3</sup>	0/8910	0/8900	0/8850	0/8880	0/8750	0/8700
Neutralization Number	ASTM D-97	°c	-6	-6	-6	-6	-6	-9
Pour point ( max)	ASTM D-92	°c	215	205	195	185	175	165





**LUBSHIELD**

**Gasoline Engine Oil  
(ATF DEXRON II-D)**

Gasoline Engine Oil  
(ATF DEXRON II-D)

### Product Introduction :

LUBSHIELD ATF DEXRON II-D is designed specifically for use in Automatic Transmission and Power Steering System in passenger cars and light duty trucks. This product has excellent anti-wear properties and may be used in hydraulic systems where good performance over a wide temperature range is desired.

### APPLICATIONS:

- Automatic Transmission Systems.
- Power Steering Unit.
- Mobile and Industrial Hydraulic Systems

### TYPICAL PROPERTIES

PARAMETERS	TEST METHOD	UNIT	TYPICAL TEST RESULT
SAE Grade			DEXRON II-D
Color	ASTM D -1500	-	RED
Kinematic Viscosity 104 F/ 40 C	ASTM D -7042	cSt	TBR
kinematic viscosity 212 F/ 100 C	ASTM D -7042	cSt	8.50
Viscosity Index (min)	ASTM D -2270	-	165
S.P gravity 60 C	ASTM D -4052	g/cm <sup>3</sup>	0.8600
Flash Point (min)	ASTM D -92	° C	200
pour point (max)	ASTM D -97	° C	-39







ATF DEXRON III-G)

**Product Intorduction :**

LUBSHIELD ATF DEXRON III-G is a high performance automatic transmission fluid exceeding the latest revised specifications of DEXRON III-G Specification. This oil is recommended for most passenger car and commercial automatic transmissions and it is also suitable for power steering systems, hydraulic applications and some manual transmissions where an automatic transmission fluid is specified

**APPLICATIONS:**

ATF DEXRON III-G can be used as the lubricating oil in several types of rotary air compressors under certain service conditions. Its low-temperature properties and resistance to oxidation are important factors in meeting the requirements of this service. Automatic and power-shift transmission of passenger cars, light commercial vehicles and industrial vehicles. Hydraulic systems where ATF type DEXRON III-G is recommended

**TYPICAL PROPERTIES**

PARAMETERS	TEST METHOD	UNIT	TYPICAL TEST RESULT
SAE Grade			DEXRON III
Color	ASTM D -1500	-	RED
Kinernatic Viscosity 104 F/ 40 C	ASTM D -7042	cSt	TBR
kinernatic viscosity 212 F/ 100 C	ASTM D -7042	cSt	8.50
Viscosity Index (min)	ASTM D -2270	-	190
S.P gravity 60 C	ASTM D -4052	g/cm <sup>3</sup>	0.8400
Flash Point (min)	ASTM D -92	° C	200
pour point (max)	ASTM D -97	° C	-42







**Product Introduction :**

LUBSHIELD Calcium Grease is a proven performer, thickened by calcium hydroxide with mineral oil. This product has excellent water resistant property, mechanical stability and lubricating performance. It has a smooth and buttery texture.

**APPLICATIONS:**

ASuitable for the lubrication of pivots, joints, springs, Can be used as maintenance grease, It is intended for all Automotive Application including chassis points, king pins, die pins. It is also used in typical Industrial Construction and Agricultural equipments.

**TYPICAL PROPERTIES**

PARAMETERS	TEST METHOD	UNIT	TYPICAL TEST RESULT	
NLGI GRADE	-	-	2	3
PENERATION . WORKED	ASTM D 217	0.1 MM	265 - 295	220 - 250
DROPPING POINT	ASTM D 566	°C	95	95
WATER RESISTANCE	-	-	VERY GOOD	VERY GOOD
COLOR	ASTM D 1743	-	PASS	PASS
STRUCTURE	-	-	NATURAL	NATURAL
TEMPERATURE RANGE	-	-	SMOOTH	SMOOTH
-	-	-	-10CTO + 100 C	-10CTO + 100 C
-	-	-	-	-







### Product Introduction :

LUBSHIELD lithium soap based greases are premium-quality products suitable for high-temperature service in rolling-element bearings. These versatile greases can be used in a wide range of industrial applications and are particularly recommended for bearing lubrication. HIGHLUB lithium grease is a high performance; multipurpose lithium soap based grease developed using an optimized combination of high quality mineral oil, proprietary thickener technology and an especially selected additive system enabling reliable performance across a wide range of temperatures whilst exposed to a variety of operational loads, speeds and environmental conditions.

### APPLICATIONS:

Due to its outstanding oxidation stability and resistance to softening at high temperatures, HIGHLUB Lithium greases may be used in many applications such as oven-conveyor bearings, dryer-roller bearings, induced-draft fan bearings, and equipment adjacent to high radiant heat such as ovens, etc. This grease is intended for use in a wide range of plain and rolling element bearings within the Automotive, Industrial, Marine and Energy Industries, especially targeting those applications where upper operating temperatures are likely to exceed the limits of conventional, lithium thickened greases.



### TYPICAL PROPERTIES

PARAMETERS	TEST METHOD	UNIT	TYPICAL TEST RESULT			
GRADE			MP 2	MP 3	EP 2	EP 3
PENETRATION , WORKED 25 C	ASTM D 217	°C	265-295	220-250	265-295	220-250
APPEARANCE	VISUAL	-	smooth	smooth	smooth	smooth
DROPPING POINT (min)	ASTDM D 566	°C	180	190	180	190
THICKENER	-	-	lithium soap	lithium soap	lithium soap	lithium soap
WATER RESISTANCE	-	-	very good	very good	very good	very good
BASE OIL TYPE	-	-	mineral	mineral	mineral	mineral
COLOR	-	-	yellowish brown	yellowish brown	yellowish brown	yellowish brown
TEMPERATURE RANGE	-	-	30 C + 140C	30 C + 140C	30 C + 140C	30 C + 140C





### Product Intorduction :

LUBSHIELD engine antifreeze/coolant is designed for both petrol and diesel engines. It is specially formulated as mixture of mono-ethylene glycol and selected additive package to provide outstanding all round protection. LUBSHILD offers both ready to use and concentrate coolant/antifreeze.

### APPLICATIONS:

LUBSHILD antifreeze Concentrate should be diluted with clean water (preferably de mineralized) to a concentration of between %30 that ensures satisfactory protection against corrosion for light vehicles and %50 which is the recommended concentration to achieve the best degree of protection performance for larger diesel engines. In a clean cooling system, our products will deliver optimum performance and protection for up to one year upon which the system should be drained and refilled with Coolant again.

### TYPICAL PROPERTIES

PARAMETERS	TEST METHOD	UNIT	TYPICAL TEST RESULT	
Concentration			50 %	100 %
Destiny 15 C	ASTM D 1298	g/cm <sup>3</sup>	1.065	1.13
pH	ASTM D 1121		8.5	9.2
Reflux Boiling Point C	ASTM D 1120	-	107	197
Freezing Point C	ASTM D 1117	-	- 36	- 12







# **ENGINE OILS**





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