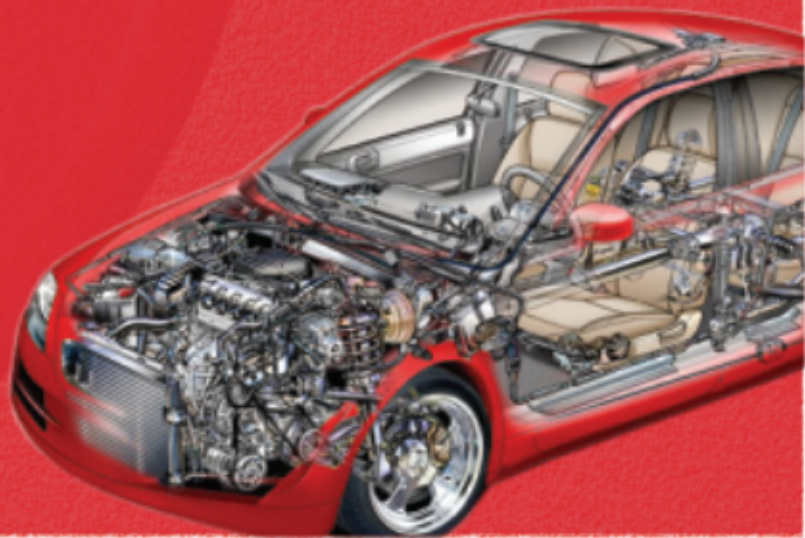




- Brake Fluids
- Anti Freeze Coolants
- Greases
- Antifriction-Additives
- Automotive-Lubricants



THE ONLY EFFECTIVE LINK BETWEEN YOUR FOOT ON THE
BRAKE PEDAL AND THE BRAKE ASSEMBLY AT EACH WHEEL....

Hydraulic Brake Fluid DOT- 5

The Composition of “K-INT” Hydraulic Brake Fluid DOT 5 is a silicone based fluid that is formulated specifically for used in hydraulic brake systems to provide corrosion protection and lubrication. In comparison to DOT 3 & DOT 4 Brake Fluids, DOT 5 provides higher thermal stability and higher dry and wet boiling points. In addition, being Silicone-based, DOT 5 is hydrophobic and will not absorb water.

“ K-INT” Hydraulic Brake Fluid DOT 5 has a service temperature range of -55°C to 255°C. Its dry boiling point (no water present) is Greater than 260°C and its wet boiling point (contains 3% water) is Greater than180°C Due to these properties, “ K-INT” Hydraulic Brake Fluid DOT 5 Fluid is widely used by the Military. It meets Mil-PRF-46176 & Mil-PRF-46176B. DOT 5 Brake Fluid also meets SAE J 1705 Society of Engineers. “ K-INT” Hydraulic Brake Fluid DOT 5 is compatible with a wide rangeof brake materials including SBR, EP, Neoprene and Natural Rubber.

Benefits

- Non-Flammable
- Meet Mil-PRF 46176 and Mil-PRF-46176B
- High Temp Serviceability: 255°C
- Low Temp Serviceability: -55°C
- Will not damage paint
- Will not absorb moisture
- Long service life

Hydraulic Brake Fluid DOT -3

K- Int Super Brake Fluid is an automotive brake fluid of FMVSS No. 116, DOT 3 quality level. K-Int Super Brake Fluid is a synthetic brake fluid to give superior performance over a wide temperature range. K-int Super Brake Fluid has a good vapour lock characteristics and has required anti corrosion , anti wear properties for a long trouble free Hydraulic Braking system.

Benefits

Superior Low temperature Fluidity and boiling gives wide operational range Compatible with all seal materials used in automotive hydraulic brakes Good wear and corrosion protection

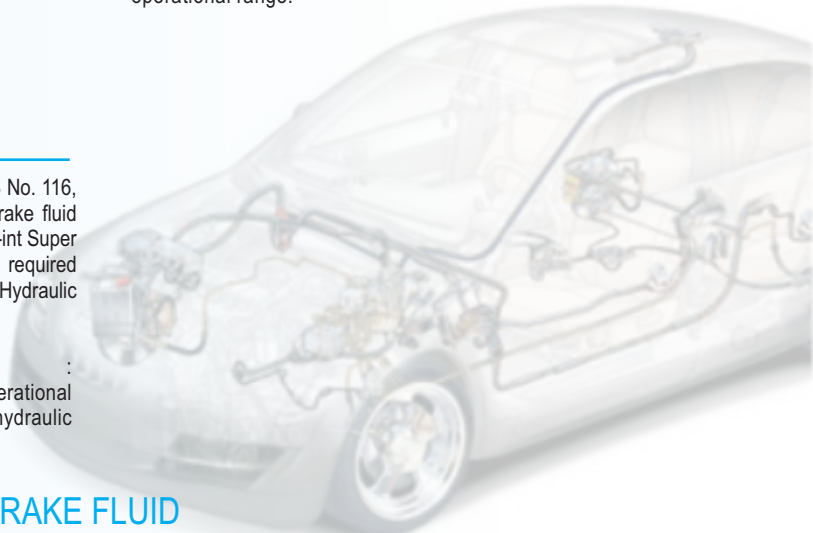
Hydraulic Brake Fluid DOT -4

The Composition of “ K-INT” Super Brake Fluid DOT4 is Chemically balanced and engineered to obtain optimum performance and to provide maximum safety. It. Exceeds the performance requirements of FMVSS NO.116 DOT-4 specification and IS-8654 TYPE-II. Typical Technical data is given below...

Kalika International Super Brake Fluid is a brake fluid of FMVSS NO.116 DOT 4 quality.Kalika International Super Brake Fluid is synthetic fluid specially made for systems where fluid other than oil are recommended. Kalika international Super Brake Fluid has a high vapour lock to ensure reliable and sturdy braking over a wide range of operating temperatures. Kalika international Super Brake Fluid gives good braking performance even after prolonged exposure to humidity. The high boiling point minimizes vapour lock at high operating temperatures.

Benefits:

- Excellent lubricating properties reduce wear.
- Outstanding physical and chemical stability.
- Superior compatibility with seal material giving long component life.
- Excellent low temperature fluidity and high boiling point gives wide operational range.



TYPICAL SPECS FOR HYDRAULIC BRAKE FLUID

	KI 220 (DOT3)	KIX 250 (DOT3)	KI 235 (DOT4)	KIX 250 (DOT4)	DOT 5
Equilibrium Reflux Boiling point (°C)	>220	>250	>235	> 250	325
Wet Equilibrium Reflux Boiling point (°C)	147	150	158	165	198
Viscosity @ -40°C (cSt.)	1400	1450	1600	1650	852
@100°C (cSt.)	1.9	2.1	2.1	2.2	39.45
pH Value	8.5	8.5	8.5	8.5	7.52
Evaporation Loss @ 100°C (%w/w)	55	60	60	55	10.21
Residue pour point (°C)	< - 5	< -5	<-5	<-5	<-5
Residue Texture	Pass	Pass	pass	pass	pass
Corrosion					
Weight Change (mg/cm²)					
Tinned Iron	< 0.1	< 0.1	<0.1	<0.1	<0.0182
Steel	< 0.1	< 0.1	<0.1	<0.1	<0.0196
Aluminum	< 0.1	< 0.1	<0.1	<0.1	<0.0082
Cast Iron	< 0.1	< 0.1	<0.1	<0.1	<0.0287
Brass	< 0.1	< 0.1	<0.1	<0.1	<0.0324
Copper	< 0.1	< 0.1	<0.1	<0.1	<0.387
Pitting	None	None	None	None	None
Solution pH	8.0	8.0	8.6	8.8	7.5
Appearance of Test Liquid	Pass	Pass	Pass	Pass	Pass

NOTE : Brake Fluids are very sensitive products, slight contamination with water or other fluids can drastically deteriorate their performance. Contamination with oils has shown to affect the seal compatibility, causing seal swelling and brake failure . Therefore containers used for brakefluids should be kept scrupulously clean and should not be used for other products. Brake fluid is a hygroscopic fluid and hence water adsorption greatly reduces the boiling point and vapour lock point of the fluid. The Adsorption of water in brake system takes 10 to 12 months to affect the braking efficiency. Therefore it is recommended that it must be changed once a year or as recommended by the vehicle manufacturer

In view of our policy of ongoing research and development the physical characteristics of products are subject to change without notification.

Anti Freeze Coolant

K-INT ANTI FREEZE COOLANT IS THE MOST ADVANCED ECO FRIENDLY COOLANT IT DOES NOT CONTAIN AMINES, BORATES, SILICATES OR NITRATES... YET IT GIVES BEST RESULT UNDER EXTREME CONDITIONS BECAUSE OF OUR SPECIALLY FORMULATED HIGHLY ADVANCED ADDITIVE SYSTEM.

Product Description: Kalika Anti Freeze is a high quality monoethylene glycol based fluid incorporated with rust and corrosion inhibitor. Suitable for both gasoline and diesel engine water cooling system.

Benefits:

- For all year round protection.
- Suitable for use in cast iron and aluminum engines.
- Excellent prevention of rust and corrosion.
- Superior Control of sludge and deposits.
- Harmless to rubber hoses and gasket and material.
- Does not bail away when system are overheated.

Application: Kalika Anti Freeze is recommended for engine water cooling system. Anti Freeze concentration of 25%to 50% or as recommended by vehicle manufacturer. For best protection 50% concentration will Give maximum protection required.

Properties: Kalika Anti Freeze exhibits excellent control of rust and corrosion. Cooling the system at Evaluated temperature and does not fail in the system thus reducing evaporation losses.Special rust and Corrosion inhibitor protect aluminium and cast iron built modern engines.

PARAMETER	Requirement	Typical Result
Boiling Point, °C Min	155.0	165
Specific gravity at 20 °C, Min	1.114 0	1.137
Water content, percent by Mass, Max	5.0	3.01
FreeZing point of water Solution °C, Max		
a) 30 percent (v/v)	-14.0	-18
b) 50 percent (v/v)	-34.0	-36
PH of 30 percent (v/v) Water solution	7.0 to 11.0	8.1
Reserved alkalinity	Report	4.1
Foaming Property of 30 Percent (v/v), water solution ml, Max	4.0	3.0
Ageing and corrosion Test at 88 ± 2° C for 336± 2 h		
a)Metal specimen weight change, mg/cm ²		
-Aluminium	± 0.30	-0.2867
- Cast iron	± 0.30	-0.0563
- Steel	± 0.15	+0.0948
- Brass	± 0.15	-0.1077
- Solder	± 0.30	-0.2701
- Copper	± 0.15	-0.1043
b)Appearance of specimens after test	There shall be no visible corrosion or pittings, but change in colour is permissible	passes
c)Foaming during test	No visible foam inside thecondenser	No visible foam inside the condenser
d)Properties of the coolant after test		
-PH	7.0 to 11.0	8.80
-Change in pH	+ 1.0	0.7
-Change in reserved alkalinity percent	Report	13
-Amount of precipitation (v/v) percent Max	0.5	0.1
Appearance of liquid phase	No significant Change of Colour and No phase Separation and Gel formation	No significant change of colour and no phase separation and gel formation

Lubricants

We manufacture various kinds of multigrade/semisynthatic engine oils, gear oils, Hydraulic oils & Transmission Fluid.

THE ENGINE OILS :

The engine oil range starts from 20W40, 15W40, 10W40, 5W40 with performance level of API SF,SG,SH,SJ,SM,CD,CF,CH,CJ,CI

Our engine oil formulations are made from select high quality base stock and most superior performing additives, detergents, dispersants anti oxidants, anti wear and corrosion inhibitors made of superior quality. We also use high quality viscosity index improvers which have outstanding stay in grade performance which helps our engine oil perform under severe driving conditions.

THE GEAR OILS RANGE :

The gear oils range are EP 80W, 90,140,75W90,80W90,85W140 & meets API GL4 & GL5 performance level.

Our Gear oils are made from paraffinic base stocks which are fortified with EP additives. Our Gear oils are chemically very stable under severe conditions of load and shock load at high temperatures.

AUTOMATIC TRANSMISSION FLUIDS :

Our Automatic Transmission Fluids meets Dexron II, Dexron II E, Dexron III performance level

Our Transmission fluid made from highly refined base stock combined with most successful technology of viscosity index improvers, anti oxidants, extreme pressure friction modifiers, anti foam and pour point depressant additives.

HYDRAULIC OILS

Our hydraulic oils are a premium quality hydraulic oils with multi metal compatibility. Our hydraulic oils are made from high viscosity index base stock combined with anti wear, anti foam and rust inhibitors to give good performance under extended drains

Multipurpose grease no 2 & 3 (Lithium grease)

Description & Application:
These are lithium soap multipurpose greases. They have excellent water resistance properties, high oxidation stability, and maximum structural stability with superior anti-rust & anti-corrosion properties. These greases resist water washout & enjoy all round acceptance for both anti-friction & plain bearing lubrication. Multipurpose greases 2 & 3 meet the requirements of British Timken ALG 1/57, IS: 7623- (second revision), IPSS:1-09-006 specification & U.S. Steel 374 requirements. These greases are widely used in steel plants, heavy engineering units, textile mills, petrochemical & chemical units, etc. These greases are recommended for all class of service in automotive lubrication & bearings.

Extreme Pressures (E.P) grease no 1 & 2

Description & Application:
These greases are lithium base greases having extreme pressure (EP) properties. These greases possess excellent shear stability, high load carrying capacity, high oxidation stability & anti rust / anti corrosion properties. These greases prevent welding & seizure of moving parts often caused by shock loading & resist water washout. EP greases meet IPSS:1-09-005 specification are recommended for both plain & anti friction bearings in a wide variety of applications such as automotive, earth moving equipments, gear couplings, electric motors, mining equipments, & general industrial machinery. It meets IS: 7623- (Second Revision)

High Temperature & High Temperature Moly grease

Description & Application:
HT & HT Moly are non soap based smooth structured greases having excellent ability to withstand high temperature & severe shock load conditions. This grease has excellent resistance to water washout. & does not get effected by mild acids & alkalis. HT moly contains Molybdenum disulphide & therefore, has high load bearing ability. They have good oxidation resistance & thermal stability for use in both plain & anti friction bearings. It can lubricate satisfactorily at temperature upto 230 °C and will not melt or soften at higher temperature. HT moly meets IS:12790 - grade 3 & IPSS :1-09-008

Moly grease

Description & Application:
Moly is multipurpose lithium based grease, Compounded with finely dispersed Molybdenum disulphide which is very effective solid lubricant with extremely good anti scuffing characteristics. It provides protection to moving parts under very severe shock load conditions, resists water washouts & gives long service life. Moly grease is recommended for chassis fittings, wheel bearings, greases lubricated universal joints in passenger cars, trucks, buses, farm tractors, mobile construction as well as earth moving machinery. It meets IS:12203.

MPSP Grease

Description & Application:
These are lime based multipurpose grease. MPSP possesses excellent water resistant, anti rust & anti corrosive properties. They are recommended for general application & plain & anti friction bearing where temperatures are moderate. (Below 70 °C). This grease acts as protective layer on exposed parts. This grease is recommended for general chassis lubrication including suspension & steering system. It is also suitable for certain open & semi enclosed gears as well as chain drives of farm equipments.

Typical Properties

Grease	M.P.-3	M.P.-2	E.P.-1	E.P.-2	Moly	H.T.	H.T. Moly	MPSP
NLGI Grade	3	2	1	2	2	2	2	3
Thickener Type Soap	Li	Li	Li	Li	Li	Organic Clay	Organic Clay	Ca
Color, Visual	Light Yellow	Light Yellow	Golden Yellow	Golden Yellow	Grey Black	Golden	Grey Black	Light Yellow
Penetration, Worked, 25°C , ASTM D 217	240	275	315	276	272	270	275	250
Free alkalinity, as Li (OH), %wt, Max	0.24	0.24	-	-	-	-	-	-
Free Organic acidity, as OLEIC acid, %wt Max	-	-	0.008	0.008	0.008	0.008	-	-
Dropping Point °C, ASTM D 2265 Min.	185	190	185	190	195	280	280	95
Viscosity of Oil, ASTM D 446 cst @ 40°C Min.	140	140	140	140	180	460	460	-
Roll Stability, ASTM D 1831, mm/10	6	7	7	6	5	6	6	-
4-Ball Weld Load, ASTM D 2596, Kg	220	220	265	265	350	250	380	-
Copper Strip Corrosion, ASTM D 4048	1A	1A	1A	1A	Negative	Negative	Negative	-

We also manufacture speciality greases like Lithium Complex , Calcium Sulphonate complex etc... & tailor made greases as per customer requirement.

KALIKA INTERNATIONAL belongs to SWASTIK GROUP of companies Which has diversified interests in Petrochemical, Lubricants, Brake Fluids, Real Estate etc.

KALIKA INTERNATIONAL has made mark in Australia, Middle East, Africa, South East Asia and China. The company's production capacity for hydraulic brake fluid is more than 25000 MT/ annum and has additional capacities for lubricants.

KALIKA INTERNATIONAL considers quality as one of its principal strategic objectives to guarantee its growth and leadership in the markets in which it operates. Company has a fully equipped laboratory at Mumbai, Navsari (Gujarat), Sachin (Gujarat) & team of qualified chemists runs this laboratory. Our laboratory is tasked with inspection of our raw materials and finished products to ensure that the Global performance specifications and established World Class quality standards have been adhered to. All the measuring instruments in our laboratory are calibrated maintained and tagged at specified intervals as recommended by the test equipment manufacturers (& this is verified through our periodic robust internal Round Robin Testing Program). The Company maintains an open communication channel with its consumers and customers and carefully monitors the feedback to continuously improve its products and services and set quality standards to fulfill them. The company periodically reviews quality policy for its effectiveness and consistency with business objectives.





Mfgs & Exporters of
Hydraulic Brake Fluid, Anti Freeze Coolant, Automotive & Industrial Lubricants.

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