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## Product Technical Guide

### PRODUCT RANGE

- Automotive Oils
- Industrial Oils
- Gear Oils
- Brake Fluids
- Greases
- Coolants



### PROFILE

It is great Pleasure to present this Product Technical Guide on Launch of our Lubricating Oil products FUTEK. We have done exhaustive indepth study of the requirements of Auto Industry / Manufacturers and have incorporated their specifications & requirements through continuous R&D.

We have highlighted the Salient features, Applications, Precautions and the Standards of our wide range of products, thus enabling you to select the proper grade of lubricant as per the requirements & User Manuals.

The Products mentioned in this Technical Guide conforms to National and International Standards. We have also taken into accounts the factors related to atmospheric and climatic Conditions Prevailing in India i.e. Temperate / Coastal / Continental / Desertic and Extreme Cold climate. It is matter of honor that our products have stood the requirements, specifications and various tests successfully.

We do hope that this Technical Guide would serve as a ready reckoner and shall be useful to get correct Information and application of "FUTEK" Products.

Tarboline Lubricants India Pvt. Ltd. and its brand name "FUTEK" has carved a niche in Lubricants Market through total quality management and consumer satisfaction and we assure you that we would continue to do our best to provide you the best products.

with Warm Regards

Managing Director  
SHIV KUMAR



### Megma Gold 15W40 API CI-4 Plus

#### DESCRIPTION :

FUTEK 15W-40 is premium multipurpose diesel engine oil designed for the most severe performance requirements of diesel vehicles. It assures outstanding protection against high temperature engine deposits, oil degradation, oil thickening and corrosion resistance. This oil is having excellent shear stability to maintain viscosity under severe, high temperature operations. It exhibits outstanding control on soot induced thickening and soot induced wear.

#### APPLICATION

FUTEK 15W-40 is recommended for Tata Cummins B-Series mechanical engines. The product can be used for other OEMs, new generation commercial diesel vehicles of both American and European design operating on Heavy duty on-highway and off-highway equipments.

#### PERFORMANCE BENEFITS

- Reduced engine scuffing and bore polishing.
- High engine cleanliness.
- Effective cam/tappet and valve train wear protection.
- Improved control of oil consumption.
- Easier cold starting.
- Excellent all weather performance due to improved cold weather properties.
- Has the potential of long drain interval.

#### PERFORMANCE STANDARDS

- API CI-4 Plus
- ACEA E7
- MB 228.3
- VOLVO VDS-3
- Cummins CES 20076 / CES 20077 / CES 20078 Specs.



#### Available Pack Size :

210L, 50L, 20L, 15L, 10L, 7.5L, 6L, 5L, 1L, 500ml



| SAE GRADE                       | 15W-40     |
|---------------------------------|------------|
| Kinematic Viscosity cSt @ 100°C | 14 – 15    |
| Viscosity Index, Min.           | 120        |
| Flash point (COC), °C Min.      | 220        |
| Pour Point, °C Max.             | (-) 18     |
| TBN mg KOH/gm                   | 9.5 – 11.5 |



### Megma All Fleet 15W40 API CH-4 Plus

#### DESCRIPTION :

FUTEK 15W-40 is API certified, premium commercial multipurpose diesel engine oil. The oil is designed for the most severe performance requirements of new generation diesel engines for on and off highway operations. It assures outstanding protection against high temperature engine deposits, oil degradation, oil thickening and corrosion resistance. The oil is having excellent shear stability to maintain viscosity under severe, high temperature operations. It exhibits outstanding control on soot induced thickening and soot induced wear.

#### APPLICATION

FUTEK 15W-40 is recommended for new generation commercial diesel vehicles of both American and European design such as Caterpillar and Cummins operating on Heavy duty on-highway and off-highway equipments. It is tailored to the lubrication requirements of engines complying to EURO III. It is especially compounded for use with diesel fuel ranging in sulphur content upto 0.5% by wt.

#### PERFORMANCE BENEFITS

- Reduced engine scuffing and bore polishing.
- High engine cleanliness.
- Maximum protection from wear and deposits.
- Suitable for mixed fleet operation.
- Improved control of oil consumption.
- Easier cold starting.
- Excellent all weather performance due to improved cold weather properties.
- Has the potential to doubled the oil drain intervals compared to current diesel engine oils.

#### PERFORMANCE STANDARDS

- API CH-4
- MB 228.3
- MAN 3275
- MACK EO-M Plus
- VOLVO VDS-2
- Cummins CES 20076
- ACEA E3-96



#### Available Pack Size :

210L, 50L, 20L, 15L, 10L, 7.5L, 6L, 5L, 1L, 500ml



| SAE GRADE                       | 15W-40      |
|---------------------------------|-------------|
| Kinematic Viscosity cSt @ 100°C | 13.5 – 15.5 |
| Viscosity Index, Min.           | 120         |
| Flash point (COC), °C Min.      | 200         |
| Pour Point, °C Max.             | (-) 18      |
| TBN mg KOH/gm                   | 10.0 – 11.5 |



### Tractor Special 20W40 API CF-4

#### DESCRIPTION :

FUTEK Tractor Special 20W40 has been specially formulated as multi grade engine oil after extensive Research & Development work for use in tractor engines experiencing greater torque and load.

#### APPLICATION

Diesel Tractors/ earth movers from Escorts, Ford, HMT, Hindustan, Eicher, Swaraj, Mahindra, Massey Ferguson makers etc. operating under severe conditions in field and on roads viz heat, dust, cold, heavy loading etc.

#### PRODUCT FEATURE :

- High viscosity index of oil enables operation of engine in extreme temperatures.
- Easy cranking and quick starting at low temperatures.
- Good anti-wear, anti-oxidant and anti engine deposits.
- Reduces oil consumption and keeps engine clean from sludge.
- No seasonal oil changes.
- Increase oil drain interval and fuel efficiency.

#### PERFORMANCE STANDARDS

IS 13656-1993 (E-DL3), US MILITARY MIL-L-2104E, API CF-4.



Available Pack Size :  
210L, 50L, 10L, 7.5L, 6L, 5L, 1L



| SAE GRADE                       | 20W-40      |
|---------------------------------|-------------|
| Kinematic Viscosity cSt @ 100°C | 13.5 – 15.5 |
| Viscosity Index, Min.           | 110         |
| Flash point (COC), °C Min.      | 220         |
| Pour Point, °C Max.             | (-) 18      |
| TBN mg KOH/gm                   | 8.5 – 9.5   |

### Autospecial 20W40 API CF

#### DESCRIPTION :

FUTEK 20W-40 is high performance diesel engine oil, which provides excellent protection against corrosive wear in all types of diesel engines. This oil is suitable for all seasons and retains high level of alkalinity during use.

#### APPLICATION

Autospecial 20W-40 is recommended for:

- Highly supercharged diesel engines
- Commercial service in diesel engines
- Off highway equipments
- Stationary DG Sets

#### PERFORMANCE BENEFITS

Autospecial 20W-40 provides:

- Improved cold starting and faster engine warm up.
- Outstanding engine cleanliness even under most severe operating conditions.
- Exceptional thermal and oxidation stability to resist decomposition in super charged engines operating with high ring zone temperatures.
- Longer battery life.
- Lower fuel and engine oil consumption.
- Excellent resistance to wear.

#### PERFORMANCE STANDARDS

Autospecial 20W-40 meets the following specifications.

- API CF / CD
- E-DL 3 of IS: 13656-2002
- MACK T7
- US Military MIL-L-2104C
- Sequence III F



Available Pack Size :  
210L, 50L, 20L, 10L, 5L, 1L, 500ml.



| SAE GRADE                       | 20W-40      |
|---------------------------------|-------------|
| Kinematic Viscosity cSt @ 100°C | 13.5 – 15.5 |
| Viscosity Index, Min.           | 110         |
| Flash point (COC), °C Min.      | 220         |
| Pour Point, °C Max.             | (-) 18      |
| TBN mg KOH/gm                   | 8.5 – 9.5   |

### Megma Car Care 20W50 API SJ/SM

#### DESCRIPTION :

It is a super premium multigrade oil for gasoline engines. It is made from high quality solvent refined base oils and selected additives. Being multigrade oil it has wide ranging features.

#### APPLICATION

Petrol / CNG engines, Particularly for high performance fuel efficient new generation engines of vehicles like MARUTI, HONDA, SKODA, HYUNDAI, FIAT etc.

#### PERFORMANCE BENEFITS

- Excellent oxidation stability
- Super detergency level.
- Added protection against engine deposits, rust, corrosion and water.
- Quicker Engines Start & longer Battery Life.
- Avoids seasonal oil changes.
- Reduces Exhaust Emission
- Increased Oil Drain Period. Can be almost doubled over the API-SJ/SL multigrade oil.
- Increased Fuel efficiency.
- Lower oil consumption due to lesser tendency of oil thickening.
- Maintains stay-in-grade viscosity throughout over wide range of operating temperature.

#### PERFORMANCE STANDARDS

• IS-13656 (E-PL3/E-DL2) / API - SJ/SM.



Available Pack Size :  
210L, 50L, 5L, 3L, 1L.



| SAE GRADE                       | 20W-50     |
|---------------------------------|------------|
| Kinematic Viscosity cSt @ 100°C | 15 – 18    |
| Viscosity Index, Min.           | 120        |
| Flash point (COC), °C Min.      | 200        |
| Pour Point, °C Max.             | (-) 15     |
| TBN mg KOH/gm                   | 6 – 8      |
| Sulphated Ash % wt              | 0.6 – 0.75 |

### Megma Moto 4T 20W40, 10W30 & 20W50

#### DESCRIPTION :

FUTEK 20W40, 10W30 & 20W50 grade is the premium quality motor cycle engine oil made to cater to the highly demanding lubrication requirements of modern 4-Stroke geared bikes. 20W 40 is manufactured from the finest Group II base stocks and state of art additive technology to meet the most stringent requirements of API SM as well as JASO MA 2. 20W 40 provides superior protection for engine, clutch and gears of a motor cycle which helps you to derive the best performance from your bike all the time, while ensuring high engine durability.

#### APPLICATION

FUTEK 20W40, 10W30 & 20W50 grade is recommended for new generation geared 4-stroke bikes manufactured by most of the reputed manufacturers like Hero Motors, Bajaj, Yamaha, Honda, Suzuki, TVS, Royal Enfield etc.

#### PERFORMANCE BENEFITS

- Maximum power output.
- Superior performance in terms of oxidation stability.
- Excellent wear protection at high temperatures and severe operating conditions.
- Outstanding overall engine cleanliness.
- Enhanced engine & gear life.
- Higher fuel efficiency.
- Potential oil drain period of more than 5000 Kms.

#### PERFORMANCE STANDARDS

- API SL / JASO MA 2
- Meeting API SM specification of Valve Train Wear (VTW).



Available Pack Size :  
210L, 50L, 2.5L, 1L, 900ml



| SAE GRADE                       | 20W-40      | 10W30   | 20W50  |
|---------------------------------|-------------|---------|--------|
| Kinematic Viscosity cSt @ 100°C | 14.5 – 15.5 | 10 - 11 | 17-19  |
| Viscosity Index, Min.           | 110         | 120     | 120    |
| Flash point (COC), °C Min.      | 200         | 200     | 210    |
| Pour Point, °C Max.             | (-) 15      | (-) 15  | (-) 15 |
| TBN mg KOH/gm                   | 5.9         | 5.9     | 5.9    |



## Gear Oil EP-90 & EP-140

### DESCRIPTION :

FUTEK Gear oils are automotive extreme pressure gear oils blended from specially selected high viscosity index base stocks and contain additives which impart extreme pressure, anti-rust, anti-corrosion and anti oxidation characteristics. These are multi-purpose type gear lubricants specifically formulated to meet the rigorous service demand of commercial fleet mechanical transmissions, axles and gear boxes.

### APPLICATION

FUTEK Gear oils are primarily recommended for the lubrication of hypoid differential units operating under severe conditions and other types of mechanical transmissions and drive axles where extreme pressure gear oils are required.

### PERFORMANCE BENEFITS

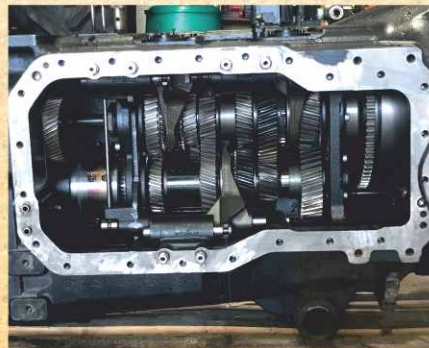
- FUTEK Gear Oil
- Have exceptional chemical and thermal stability permitting use upto bulk oil temperature of 150°C
  - Have excellent extreme pressure property to give maximum protection against low speed-high torque wear and high speed – shock induced scoring
  - Guard automotive gear assemblies against rust and corrosion

### PERFORMANCE STANDARDS

- FUTEK Gear oils meet the following specifications:
- API Service GL4
  - US Military MIL-L-2105D
  - UK Defence CS 3000B • IS : 1118-1992



**Available Pack Size :**  
210L, 50L, 20L, 10L, 5L, 1L, 500ml



| SAE GRADE                  | EP-90 | EP-140 |
|----------------------------|-------|--------|
| Kinematic Viscosity        |       |        |
| cSt @ 100°C                | 16-18 | 28-34  |
| Viscosity Index, Min.      | 90    | 90     |
| Flash point (COC), °C Min. | 180   | 190    |
| Pour Point, °C Max.        | (-) 9 | 0      |

## Hypoid Gear Oil EP 80W90 & EP-85W140

### DESCRIPTION :

FUTEK Gear oils are automotive extreme pressure multi-gear oils blended from specially selected high viscosity index base stocks and contain additives which impart extreme pressure, anti-rust, anti-corrosion and anti oxidation characteristics. This is multi-purpose type gear lubricants specifically formulated to meet the rigorous service demand of commercial fleet mechanical transmissions, axles and gear boxes.

### APPLICATION

FUTEK Gear oils are special multigrade heavy duty hypoid gear oils. Primarily recommended for the lubrication of hypoid differential units operating under severe conditions and other types of mechanical transmissions and drive axles where extreme pressure gear oils are required. It is ideal for vehicles operating in areas where ambient temperature vary widely

### PERFORMANCE BENEFITS

- FUTEK Gear oils
- Have exceptional chemical and thermal stability permitting use upto bulk oil temperature of 150°C
  - Have excellent extreme pressure property to give maximum protection against low speed-high torque wear and high speed – shock induced scoring
  - Guard automotive gear assemblies against rust and corrosion.
  - It is expected to give fuel economy.

### PERFORMANCE STANDARDS

- FUTEK Gear oil meet the following specifications:
- API Service GL5 / IS -1118-1992
  - US Military MIL-L-2105D
  - UK Defence CS 3000B



**Available Pack Size :**  
210L, 50L, 20L, 10L, 5L, 1L



| SAE GRADE                  | 80W90  | 85W140  |
|----------------------------|--------|---------|
| Kinematic Viscosity        |        |         |
| cSt @ 100°C                | 28-32  | 13.5-15 |
| Viscosity Index, Min.      | 90     | 90      |
| Flash point (COC), °C Min. | 180    | 165     |
| Pour Point, °C Max.        | (-) 18 | (-) 21  |

## Trans Fluid ATF

### DESCRIPTION :

These are premium quality transmission oil blended from high quality solvent refined base stocks fortified with carefully selected additives to give good dispersant oxidation stability, seal compatibility, anti-foam, anti-corrosion and anti-wear characteristics.

### APPLICATION

Recommended for Lubrication of synchromesh gears and automatic and power steering units of automobiles and LCVs requiring Type A Suffux A fluid.

### PERFORMANCE FEATURES

- Provides excellent power shift transmission.
- Reduces gear wear.
- Improves life of transmission & steering system.
- Compatible with various type of seal materials.

### PERFORMANCE STANDARDS

- FUTEK Transmission Fluid
- TES 122 GM TASA Dextron II Specifications of Detroit Diesel Allison, General Motos Type A Suffux A Specifications.



**Available Pack Size :**  
210L, 50L, 20L, 5L, 1L.



| SAE GRADE                      | ATF TQ |
|--------------------------------|--------|
| Kinematic Viscosity cSt @ 40°C | 7-8    |
| Viscosity Index, Min.          | 160    |
| Flash point (COC), °C Min.     | 180    |
| Pour Point, °C Max.            | (-) 24 |

## APLR / AP-3 Grease

### DESCRIPTION :

FUTEK Grease AP-3 is a premium quality lithium soap, multi-purpose automotive grease, with high drop point, good thermal and structural stability and also having resistance against water wash out. With its smooth structure and high degree of resistance against oxidation and rusting/corrosion it is an ideal product for all grease lubricated parts of automotive equipment.

### APPLICATION

FUTEK Grease AP-3 is recommended for water pump, wheel bearings, chassis fittings and universal joints, including those of constant velocity type, for mobile equipment e.g., automotive, off- highway equipment such as tractors, construction equipment etc.

### PERFORMANCE BENEFITS

- Provides excellent resistance to structural and consistency changes, over wide range of temperatures but remains in place despite severe working or sustained shock impact
- Has excellent low and high temperature properties. It can be dispensed at low temperatures and will maintain adequate stay put property at the higher temperatures encountered in service
- Resists effectively, water wash out in use, assuring adequate lubrication over extended service periods
- Provides resistance to oxidation, rust and corrosion

### PERFORMANCE STANDARDS

- FUTEK Grease AP
- Meets IS : 7623-1999 (NLGI-3)
  - Meets IS : 12203 : 1999 (NLGI-3)



**Available Pack Size :**  
180K, 18k, 10k, 7K, 5K, 3K, 2K, 1K, 500g, 200g.



| GRADE                     | APLR       | AP-3    |
|---------------------------|------------|---------|
| Colour                    | Lite Green | Brown   |
| Structure                 | Smooth     | Smooth  |
| Soap Type                 | Lithium    | Lithium |
| Worked Penetration, @25OC | 270-310    | 220-250 |
| Drop Point, OC Min.       | 220        | 180     |



## Hydraulic 68 / 46 / 32

### DESCRIPTION :

FUTEK series are new generation water free fire resistant hydraulic fluids formulated with high performance synthetic base stocks (Phosphate ester) and selected additives to enhance critical hydraulic properties. These oils are tailor made synthetic oils. These oils provide enhanced fire resistant properties, anti-rust and antioxidant properties as well as outstanding anti-wear performance.

### APPLICATION

FUTEK oils are excellent synthetic fire resistant hydraulic fluids for lubrication of hydraulic systems at high pressures and high temperatures where there is significant risk from fire. Specifically, these are recommended for hydraulic pumps operating in high temperature zones i.e. in the areas of mining, steel mills, casting & forging plants etc.

### PERFORMANCE BENEFITS

- Inherently good lubricity
- Outstanding antiwear performance.
- Good oxidation stability
- High viscosity index
- Good corrosion protection against ferrous and non-ferrous metals
- Excellent detergency contributing to system cleanliness
- Excellent fire resistant properties
- Good oxidation and hydrolytic stability.
- High auto ignition temp, ensures safe operation.

### PERFORMANCE STANDARDS

It meets the fire resistant properties such as Auto-ignition temperature, Spray ignition test and Flame propagation test as per requirements of IS : 7895.



**Available Pack Size :**  
210L, 26L, 20L, 5L, 1L.



| SAE GRADE                  | AW-68 | AW-46   | AW-32  |
|----------------------------|-------|---------|--------|
| Kinematic Viscosity        |       |         |        |
| cSt @ 100°C                | 62-75 | 43 - 49 | 28-36  |
| Viscosity Index, Min.      | 95    | 90      | 90     |
| Flash point (COC), °C Min. | 220   | 200     | 180    |
| Pour Point, °C Max.        | (-) 6 | (-) 15  | (-) 15 |

## General Purpose Cutting Oil (Soluble) SL / SL Super

### DESCRIPTION :

FUTCUT general purpose cutting fluid of the non-EP type formulated using selected mineral base oil, emulsifier and bactericide. Forms stable milky emulsion. Futcut is fortified with EP additive to suit widest range of metal working operations.

### APPLICATION

- Metal Cutting, drilling, shaping, grinding other metal removal operations on materials such as Copper, Bronze, Steels, Aluminium and other alloys.
- Wire drawing, high speed cutting, CNC machinery and other such sophisticated operations.
- Dilution ration with water varies between 5% to 10% and 2% to 4% for Futcut respectively depending on severity of machining.

### PERFORMANCE FEATURES

- Highly stable emulsion in 400ppm hard water.
- Excellent anti-rust and anti-froth quality.
- Causes no discoloration or staining.
- Causes no corrosion of machine, workpiece or tool.
- No smoke or fog formation on use.
- Operator friendly.
- Prevents bacterial action and objectionable odour.
- Economical in use.



**Available Pack Size :**  
210L, 26L, 20L.



### PERFORMANCE STANDARDS

IS 1115-1986

| PROPERTIES   | SL     | SL Super |
|--|--------|----------|
| Viscosity at 40 °C cSt, Min.                         | 20     | 30       |
| Flash Point COC, °C Min.                             | 150    | 150      |
| Copper Strip corrosion Properties                    | Passes | Passes   |
| Cat Iron Corrosion Properties                        | Passes | Passes   |
| pH 5% emulsion in D/W                                | 8-9    | 8-9      |
| Emulsion stability (for 24 Hrs.)                     |        |          |
| 5% in tap water                                      | Stable | Stable   |
| 5% in 400ppm water                                   | Stable | Stable   |
| Heat Stability Properties (at 0 to 5 °C)             | Passes | Passes   |
| Volatile matter @ 100° C for 16 hrs. % by mass, max. | 20     | 20       |

## Spindle Oil Pal Spin Oil 10, 22

### DESCRIPTION :

These are blend of highly refined low viscosity index base oils and carefully selected anti-oxidants, anti-rust, anti-wear and anti-foam additives.

### APPLICATION

- Lubrication of high textile spindle and machine tool spindle bearings.
- Timing gears.
- Positive displacement blowers.
- Hydraulic System of precision machine tool.
- Centrifugal separator.

### PERFORMANCE BENEFITS

- High oxidation stability.
- High resistance to foaming
- High chemical stability
- Non corrosive and prevents rusting
- Good strength of oil film.
- Excellent ability to separate from water.

### PERFORMANCE STANDARDS

- Pal Spin 10 IS : 493 PART-II (Reaffirmed 1993)



**Available Pack Size :**  
210L, 26L, 20L.



| SAE GRADE                  | 10    | 22    |
|----------------------------|-------|-------|
| Kinematic Viscosity        |       |       |
| cSt @ 100°C                | 9-11  | 21-23 |
| Viscosity Index, Min.      | 90    | 90    |
| Flash point (COC), °C Min. | 160   | 160   |
| Pour Point, °C Max.        | (-) 3 | (-) 3 |

## General Purpose Machinery Oils 22, 32, 46, 68, 100, 150, 220, 320, 460

### DESCRIPTION :

These are low viscosity index mineral lubricants for protecting machinery from excessive wear and provide economical lubrication.

### APPLICATION

- Non-critical all loss lubrication system in textile mills, paper mill etc.
- Hand Oiling applications involving lubrication of bearings, open, gears, lightly loaded slides and guide ways of machine tools.
- All applications where additive treated oils are not required, e.g. lubrication of looms and other equipment in textile mills.
- Filter media in oil bath type air cleaners.
- Fluid sealing medium for gas holder where the gases don't react with mineral oils.
- Flushing of automotive & industrial equipment so as to clean their all inaccessible internal surfaces.

### PERFORMANCE BENEFITS

- Good inherent oxidation and thermal stability.
- Non-Corrosive
- Excellent ability to separate form water.
- Reduces wear and cuts down maintenance costs.
- Good adhesiveness and film strength.
- Maintains thin film of oil under light and medium loads.



**Available Pack Size :**  
210L, 26L, 20L.



| GRADE                      | 22    | 32    | 46    | 68    | 100    | 150     | 220     | 320     | 460     |
|----------------------------|-------|-------|-------|-------|--------|---------|---------|---------|---------|
| Kinematic Viscosity        |       |       |       |       |        |         |         |         |         |
| cSt @ 40°C                 | 20-24 | 29-33 | 43-48 | 64-72 | 95-103 | 145-165 | 215-239 | 288-330 | 440-480 |
| Flash point (COC), °C Min. | 150   | 150   | 150   | 150   | 160    | 200     | 200     | 200     | 200     |
| Pour Point, °C Max.        | -9    | -9    | -9    | -6    | -3     | -3      | 0       | 0       | 0       |



## Rust Preventives Water Displacing Fluid SL / SL Super

### DESCRIPTION :

These are water displacing type corrosion & rust preventive. On application on wet metal surfaces it displaces water and offers a firm, soft film which can withstand subsequent handling and provide rust protection.

### APPLICATION

- Rusttrans L is widely used for temporary corrosion protection during storage and transportation.
- As a lubricant in mild metal pressing operations.
- Very effective for protection on steel tubes, wires, strips, bare sheeting, wheel ring, auto parts & machined components.
- Rusttrans H is widely used for protection on highly finished components e.g. cylinder line, gear, dies etc.

### PERFORMANCE FEATURES

- Non-staining
- Rusttrans L leaves a residual, thin, soft, waxy like film on application and evaporation of solvent.
- Rusttrans H offers a soft, tacky, oily film on application and evaporation of solvent.
- Compatible with lubricating oils and as such, surface film need not be removed.
- Can be easily applied by dipping, spraying or by brush
- Easily removable by wiping with cloth soaked in petroleum solvents.



Available Pack Size :  
210L, 26L, 20L.



### PERFORMANCE STANDARDS

IS 1154-1957

| PROPERTIES                      | SL                | SL Super           |
|---------------------------------|-------------------|--------------------|
| Appearance                      | Thin, Amber Fluid | Heavy, Amber Fluid |
| Kinematic Viscosity, cSt @ 40OC | 3-5               | 6-8                |
| Flash Point, COC, OC            | 40                | 40                 |
| Film Forming Property           | Passes            | Passes             |
| Water Displacement Properties   | Passes            | Passes             |
| Coverage Sq M / Ltr.            | 100               | 35-45              |
| Film Thickness                  | 3 Micron          | 7-9 Micron         |
| Protection Indoor               | 9 months          | 9 Months           |
| Protection Outdoor              | 2 months          | 2 months           |

THE WORLD RUNS ON FUTEK LUBRICANTS

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## Heat Transfer Fluids Futektherm-500, 600 SL / SL Super

### DESCRIPTION :

Futektherm are specially developed heat transfer fluids from high quality base oils for use in industrial application.

### APPLICATION

- Textile, Pharmaceutical, Chemical and Processing Industries. 500 and 600 grades are suitable upto 290°C and 310°C respectively.
- High temperatures heat transfer systems.



Available Pack Size :  
210L.



### PERFORMANCE FEATURES

- High Viscosity index to ensure that viscosity does not drop too much during its hot run.
- High thermal and chemical stability. Hence, longer life.
- Excellent oxidation stability.
- Low volatility.
- Non-corrosive and non toxic.
- Low vapour pressure.

| PROPERTIES   | SL    | SL Super |
|--|-------|----------|
| Kinematic Viscosity, cSt @ 40 OC                   | 28-32 | 32-35    |
| Flash Point COC, OC Min.                           | 200   | 210      |
| Viscosity Index, Min.                              | 95    | 95       |
| Pour Point, OC, Min.                               | 0     | 0        |
| Copper Strip Corrosion, 3hrs. @ 100OC, (ASTM), Max | 1     | 1        |
| Neut. Number mg KOH/gm., Max                       | 0.100 | 0.050    |

USING FUTEK LUBRICANTS BECAME FEEL FREE JOURNEY

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## Industrial Quenching Oils Futekquench - S, C, H

### DESCRIPTION :

These oils are formulated from highly refined base oils for effective quenching and uniform hardening of metal components without metallurgical distortion.

### APPLICATION

Futekquench-S is suitable for moderate to fast quenching operation of steel components manufactured by automobile and light engineering industry at bath temp. 30 to 65°C.

Fatekquench-C is recommended for quenching operation where a compounded oil is preferred, viz for quenching of variety of steel components in major industries, high speed steel tools, ball bearings, nuts, springs etc.

Futekquench-H is recommended for the mass production of high precision, high quality products viz automotive gears and transmission components, bearing rings etc. at an optimum bath temp. up to 180OC. It is also suitable in solution treatment of heat treatable aluminium alloys.

### PERFORMANCE FEATURES

- Oxidation stability
- Excellent quenching characteristics.
- Prevents sludge formation.
- Long Service Life.

### PERFORMANCE STANDARDS

IS 2664-1980, Straight Mineral Type, Compound Type & IS 4543-1977 respectively.



Available Pack Size :  
210L, 26L, 20L.



| SAE GRADE   | S     | C     | H     |
|---|-------|-------|-------|
| Kinematic Viscosity<br>cSt @ 40°C                         | 26-30 | 26-30 | —     |
| Kinematic Viscosity<br>cSt @ 100°C                        | 4-6   | 4-6   | 17-19 |
| Flash point COC, °C Min.                                  | 200   | 200   | 240   |
| Quenching time by Magnetic<br>quencho Meter (ASTM D 3520) | 24    | 18    | 35    |
| Viscosity Index, min.                                     | 90    | 90    | 90    |

THE WORLD RUNS ON FUTEK LUBRICANTS

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Be Indian Buy Indian



## TARBOLINE LUBRICANTS INDIA PVT. LTD.

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