



HIGH PERFORMANCE LUBRICANTS FOR  
**INDUSTRIAL APPLICATIONS**

# Shield India

Shield Lubricants and Specialities (P) Ltd. is an independent lubricants manufacturer and marketer producing high value high performance products such as automotive engine oils, industrial lubricants, application lubricants, greases and speciality fluids etc in India. Shield Lubricants and Specialities (P) Ltd. is located this part of globe at Mumbai with its state of the art and up graded lube blending facility to meet newer base oil technology and newer formulation chemistry which meets and require more stringent national and international accreditations.

Shield provides end to end lubricants solutions to your needs. We have a capacity to study, create and develop lubricants as per your specific requirements due to our superior technology development department handled by experienced tribologist professionals.

Shield technology department works with top equipment builders and automobile manufacturer along with lubricants accreditation society across the globe to be at par with the latest in technology. Shield affiliation with the various technical committees makes it easier to be in up front of invention and innovation and be able to raise the standards.

## METAL WORKING FLUIDS

### NEAT CUTTING OIL

#### Shield M Cut Heavy

Shield M Cut Heavy is premium quality, state of the art proprietary chlorine-free neat cutting oils for a wide variety of machining operations on ferrous metals. These are formulated with highly refined selected base oils fortified with a extreme pressure sulphurised additive designed for extremes of performance plus presence of lubricity agents helps in smooth operations. This unique sulphurised additive component gives stability in a wide range of operating temperatures/ severity of operations in auto lathes.



#### PRODUCT FEATURES

- User and Environment friendly due to Chlorine-free.
- Low misting /fuming even under high working Temperatures.
- Enhance tool life due to presence of Lubricity agents .
- Improve surface finish due to performance even in high temperatures.
- Increase productivity due to increased sump life.
- Provide greater dimensional accuracy & minimize rejects.
- High weld load with high lubricity.

Packing available:- 210 Ltr. steel/HDPE Barrel and 20 Ltr. Bucket.

### Mineral Based Soluble Cutting Oil

#### Shield Ultra Cut

Shield Ultra Cut Oils are water emulsifiable oils for metal working operations where maximum cooling is desired. These oils are developed with selected base oils, emulsifiers and biocides for ready mixing to form a stable emulsion which provide good rust protection and excellent cooling. Shield Ultra Cut are recommended for grinding and other light to medium general machining operations in ferrous and non-ferrous metals.



**PRODUCT FEATURES**

- Form stable emulsions with water upto even 400 ppm hardness.
  - Permit rapid separation of chips and grinding dirt keeping Circulating line clean.
  - Provide good protection against rusting.
  - Provide effective cooling.
  - Formulated for components with high resistance to bacterial attack and protected from bacterial degradation.
  - Wide application range allows product rationalization.
  - Free from Nitrites, Phenol, Rosin & chlorinated additives.
- Packing available: - 210 Ltr steel/HDPE Barrels and 20 Ltr. Bucket.

**SEMISYNTHETIC, METALWORKING FLUID CONCENTRATE****Shield Multi Metal 4000**

Shield MM 4000 is Bio-stable, heavy-duty, semi-synthetic cutting fluid concentrate, with relatively high mineral oil content. Shield MM 4000 is formulated with state-of-the-art technology combining high levels of non-staining extreme pressure additives and multi-metal corrosion inhibitors, for use in the most arduous machining operations. Shield MM 4000 combines the advantages of bio-stable technology with high levels of anti-corrosion and chemical extreme pressure additives.

Metals: Carbon/Cast Steel, Cast/Nodular/Malleable/Gray Iron, Copper, Aluminum, High Alloy Steels, Stainless Steels.

**PRODUCT FEATURES**

Shield MM 4000 metal working fluid blends the advantages of synthetics with the performance of soluble oils.

- **EXCELLENT BIOLOGICAL CONTROL** Effective protection against bacteria and mold. No "Monday Morning" odors - This ensures long fluid life, minimizes the use of additives, and increases operator satisfaction.
- **OPERATOR AND MACHINE-FRIENDLY** - No smoke - No slippery film on parts, machines or floors - Mild to skin when used as recommended - Liquid residue keeps machine tool components free-moving regardless of equipment age.
- **CORROSION CONTROL** - Contains nonferrous corrosion inhibitors.
- **VERSATILE** - Its broad concentration range 1:20 (5%) to 1:10 (10%) and performance capabilities allow to perform well in both individual machine sump and central system applications.
- **ENVIRONMENTALLY-FRIENDLY** - Easy to maintain and can be recycled for extended life. Free from added Triazine biocides, Non phenol and NP ethoxylates, Sulphur EP, Phosphorus EP.

Packing available: - 210 Ltr steel/HDPE Barrels and 20 Ltr. Bucket.

**SEMISYNTHETIC, METALWORKING FLUID CONCENTRATE****Shield Ferro M 2000**

Shield Ferro M 2000 is semi-synthetic Low Oil ,translucent concentrate with no EP contents. Shield Ferro M 2000 is a general-purpose fluid recommended for machining and grinding of cast iron and steel. It has the performance capabilities of soluble oils. It is also recommended for tapping, turning, drilling, internal grinding, and centerless grinding.

**Metals:**

Cast Iron, Nodular Iron, Carbon Steels.

### **PRODUCT FEATURES**

Shield Ferro M 2000 metalworking fluid is a clean, completely water soluble, silicone free, semi synthetic product that contains an special extreme pressure (EP) lubricant for superior machining and grinding capability. Designed to be low foaming in soft water.

Economical, Excellent rancidity & mold control, Outstanding cleanliness, Leaves a soft residue.

#### • **Biostable:**

Exceptionally good bacteria and mold control - Resists attack by mold and bacteria. Is easily waste treatable using standard fluid treatment procedures and systems. It can also be recycled for reuse using appropriate metalworking fluid recycling equipment. Its Cost effective.

#### • **Versatile:**

Specially designed for excellent machining and grinding of cast iron and steel Parts and machines stay very clean. Excellent corrosion control on both ferrous and nonferrous metals.

Shield Ferro M 2000 is free from Chlorine EP, Sulphur EP, Phosphorus EP, Sodium nitrite, Silicone oil defoamers, Phenolic couplers, Nonyl phenol and NP ethoxylates.

Packing available: - 210 Ltr steel/HDPE Barrels and 20 Ltr. Bucket.

## **HEAT TREATMENT MEDIUM**

### **Shield Hard Quench SQ**

Shield Hard Quench SQ oils are formulated from Good Quality paraffinic base oils for Medium & Medium-fast quenching process. They are fortified with carefully selected additives to the optimum performance in quenching operations. These oils are used for normal quenching operation on a wide variety of steel parts such as nut and bolts, ball bearings, certain types of brake drums, etc. It meets straight mineral type, grade medium specifications.

#### **PRODUCT FEATURES**

- Excellent thermal transfer properties.
- Good chemical and oxidation stability.
- High boiling points and low volatility.
- High flash point and good fluidity.

Packing available:- Bulk, 210 Ltr. steel/HDPE Barrels.

## **HYDRAULIC OIL AND FLUIDS**

### **HIGH PERFORMANCE PREMIUM HYDRAULIC OILS**

#### **Shield Warrior HLP Series**

Shield Warrior HLP series oils are premium hydraulic oils blended from highly refined base stocks taken from superior crude stocks and processed in state of the art refining technology so that it is specifically developed to satisfy the wide temperature variations and viscosity range encountered with modern hydraulic systems where there is high pressure and high operating temperatures, small reservoirs and meet the requirements of the worlds leading hydraulic equipment manufacturers. Shield Warrior HLP oils are having outstanding VI, Anti Wear properties, excellent oxidation stability and high load carrying capacity as determined by FZG ratings.

These oils can be used for the lubrication of all-high pressure and high-speed vane, piston and gear type hydraulic pumps and for use in all hydraulic equipment's operating in extreme temperature conditions.

#### **PRODUCT FEATURES**

- A naturally high viscosity index. This results in a minimum change in viscosity that helps prevent Excessive leakage, sluggish operation and lower overall efficiency and other deficiencies attributed to low viscosity index oils over wide operating temperature ranges.



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- Excellent operating temperature reduction. 100% paraffin base oils have better specific heat values, (less heat is absorbed) and better thermal conductivity than conventional base oils. These combined properties help reduce operating temperatures.  
Film between the moving parts does not break under heavy pressure and temperatures thus avoiding metal to metal contact and increases the life of equipment.
  - High cleanliness properties leads to non sticking of low clearance critical moving parts like servo valves and reduce equipment downtime and increases filter life.
  - Excellent anti-foaming and air release properties.
  - High demulsibility properties separates the water and helps in protecting parts from rust due to presence of water in the system.
  - Oil is compatible to most of the rubber seals present in the equipment.
  - Oil can be filtered with any type of external filtration system.
- This results in lower makeup requirements due to evaporation loss and less deposit formation.
- Packing available: - 210 Ltr. steel/HDPE Barrel and 20 Ltr. Bucket.

### **Shield Warrior HLP -N Hydraulic Oil**

Shield Warrior HLP -N Hydraulic Oils are high quality anti wear type hydraulic oils designed to provide efficient and cost effective lubrication of hydraulic system and machinery. These products are formulated from high VI oils possessing excellent oxidation stability, anti wear, anti corrosion and lubricity properties.

Shield Warrior HLP-N Hydraulic oils are recommended for all types of industrial as well as mobile equipments like fork lift trucks, dumpers, molding machines and various hydraulic equipments. Operating under Strainers' Conditions.

#### **PRODUCT FEATURES**

- High VI gives the oil to perform in various temperature zones without losing its viscosity thus extending oil life.
  - High cleanliness properties leads to non sticking of low clearance critical moving parts like servo valves and reduce equipment downtime and increases filter life.
  - Due to presence of antifomant the trapped air is released in no time.
  - High demusibility properties separates the water and helps in protecting parts from rust due to presence of water in the system.
  - Oil is compatible to most of the rubber seals present in the equipment.
  - Oil can be filtered with any type of external filtration system.
- Packing available: - 210 Ltr. steel/HDPE Barrel and 20 Ltr. Bucket.

### **Shield Hydraulic Oil AW**

Shield Hydraulic Oils AW are high quality anti wear type hydraulic oils designed to provide efficient and cost effective lubrication of hydraulic system and machinery. These products are formulated from high VI oils possessing excellent oxidation stability, anti wear, anti corrosion and lubricity properties.

Shield Hydraulic oils are recommended for all types of industrial as well as mobile equipments like fork lift trucks, dumpers, blow molding and injection molding machines and various hydraulic equipments operating in industries.

#### **PRODUCT FEATURES**

- High viscosity index due to highly refined base oils.
  - High resistance to oxidation resulting in longer service life.
  - Excellent anti-corrosion and anti-rust properties.
  - High resistance to foaming and good water oil separation ensures smooth and efficient operation.
- Packing available: - 210 Ltr. steel/HDPE Barrel and 20 Ltr. Bucket.



## INDUSTRIAL GEAR LUBRICANTS

### PREMIUM GEAR OIL

#### Shield Sestina EP Gear Lube

Shield Sestina EP Gear lubes are gear lubricants based on high performance Sulphur Phosphorus chemistry blended in compatible base oils. These gear lubricants contain extreme pressure additives to perform in variety of applications and operating conditions. These lubricants are recommended for use where gears are subjected to heavy load and shock loading.

#### PRODUCT FEATURES

- High thermal stability & excellent EP properties.
  - Non-corrosive to steel, copper and bronze.
  - Enhanced oxidation stability & resistance to foaming.
  - Allows easy separation from water, protects against rust & corrosion.
- Packing available: - 210 Ltr. steel/HDPE Barrel, 20 Ltr. Bucket.



### Special Oil for Worm Gears

#### Shield Extreme Load

Shield Extreme Gear lubes are gear lubricants based on high performance unique metal deactivator chemistry blended in a special high viscosity thermal stable base oil. These gear lubricants contain additives to perform in variety of applications and operating conditions. These lubricants are recommended for used in worm gears due to its non corrosive nature to yellow metals present in worm gears which are subjected to heavy load and shock loading.

#### PRODUCT FEATURES

- High thermal stability.
  - Non-corrosive to copper and bronze.
  - Enhanced oxidation stability & resistance to foaming.
  - Allows easy separation from water, protects against rust & corrosion.
- Packing available: - 210 Ltr. steel/HDPE Barrel, 20 Ltr. Bucket.

## INDUSTRIAL GREASES

### HIGH TEMPERATURE AND WATER RESISTANCE GREASE

#### Shield Endura LiC NLGI-2 Grease

Shield Endura is a Lithium Complex Grease. It is a smooth textured, premium quality grease manufactured from highly refined, high viscosity index base oils. The superiority of Lithium Complex Grease over conventional greases can be exhibited by its high drop point of over 280 oC, excellent roll stability, superior water washout resistance, low coefficient friction, high load carrying ability, resistance to oil separation under pressure. This makes it a single grease suitable for multitude of applications.

#### PRODUCT FEATURES

- Excellent lubrication at peak temperatures.
  - Effective lubrication in wet conditions.
  - High structural stability.
  - Excellent lubrication under heavy loads and low speed.
  - Long life and trouble free performance.
  - Excellent resistance to water and oxidation.
- Packing available: - 180 Kg steel/HDPE Barrel, 20 Kg Bucket.



### Shield Endura LEP Series Grease

Shield Endura LEP Series Grease is a multipurpose EP grease containing highly refined mineral base oils, lithium thickener, EP additives and rust and oxidation inhibitors. Shield Endura LEP greases are recommended for gearboxes (Low NLGI Consistency), heavily loaded anti-friction and plain bearings on industrial and automotive equipment. Also suitable as a multipurpose automotive grease for general-purpose applications.

#### PRODUCT FEATURES

- Industrial plain and rolling element bearings in heavy industries.
- General plant lubrication.
- Centralized progressive lubrication systems (NLGI 0 and 1).
- Construction equipment bearings.
- Earthmoving, quarrying and mining.
- Agricultural equipment.
- Automotive wheel bearings.
- Chassis grease point lubrication.

Packing available:- 180 Kg steel/HDPE Barrel, 20 Kg Bucket.



## HEAT TRANSFER OILS

### Shield Therm Premium Oil 500

Shield Therm Premium 500 oil is made from highly refined, High Viscosity Index paraffinic GROUP 2 base oils. These are non-toxic and exhibit excellent resistances to thermal cracking and oxidation. The high heat content and high thermal conductivity facilitates rapid heating and efficient operation of the heat transfer system. The heat transfer fluid is to be used in systems where forced circulation is required.

#### PRODUCT FEATURES

- Thermal fluid heating system.
- Oil circulation systems.
- Open systems operating at temperatures up to 190° C  
And Closed System where bulk oil temperatures reaches up to 315° C.

Packing available: - Bulk, 210 Ltr. steel/HDPE Barrel.



### Shield Therm Oil 550

Shield Therm oils are the specialized products made from highly refined, High Viscosity Index paraffinic base oils. They are non-toxic and exhibit excellent resistances to thermal cracking and oxidation. The high heat content and high thermal conductivity facilitates rapid heating and efficient operation of the heat transfer system. The heat transfer fluid is to be used in systems with forced circulation.

#### PRODUCT FEATURES

- Thermal fluid heating system.
- Oil circulation systems.
- Open systems operating at temperatures up to 190° C and closed systems Operating at bulk oil temperatures up to 305° C.

Packing available: - Bulk, 210 Ltr. steel/HDPE Barrel.

#### UNDER DEVELOPMENT PRODUCTS

Due to recent developments in the Metal Working some of the products like Metal Deformation oils have generated a considerable responsibility with the users. Our philosophy of research and development and once again given us responsibility to come out with an acceptable solutions demanded by the users. We are in a process of evaluating the products and will be available for commercial sale in coming months.

The products are Aluminum Wire Draw (with FM), SS wire Draw, Rolling oils for Aluminum, Sheet Drawing Oils, Rust Preventive Oils (Solvent, Mineral and Wax based) polymer quenching mediums, Fire Resistant Hydraulic Fluids (HFC).



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