PRODUCTS AVAILABLE FOR INDUSTRIAL LUBES & SPECIALTIES

METAL CUTTING FLUIDS

❖ WATER - MIX CUTTING FLUIDS

These products are emulsifiable in water and are a blend of refined mineral oil base stocks, emulsifiers, additives and suitable bactericides.

❖ METAL CUTTING FLUIDS

In preparing the emulsion of soluble oils with water, the product is always added to the water and not vice versa to prevent inversion of the emulsion. The requisite quantity of product is added to two or three parts of water to form a concentrated emulsion, which is subsequently diluted with the requisite quantity of water. The emulsion is applied copiously to flood the work and the tool at the machining area. This ensures satisfactory performance.

❖ Water hardness

Hardness in water is expressed as grains of calcium carbonate per gallon or parts of calcium carbonate per million parts of water.

❖ HP KOOLKUT 40

This is general-purpose emulsifiable oil and forms milky white emulsion.

❖ HP KOOLKUT 60

General purpose emulsifiable cutting oil forming a translucent emulsion. The ultra fine dispersion of the oil globules reduces grinding wheel clogging and low oil content emulsion may be used safely without loss of non-corrosive properties.


General purpose emulsifiable cutting oil forming a yellowish emulsion with EP characteristics for moderate to heavy duty applications. KOOLKUT EP 67 is recommended as a coolant in stainless steel rolling.
HP Koolkut 70

Metal working fluid containing no oil but consisting of special corrosion preventive additives in water. This product is supplied as concentrate.

HP Koolkut 80

Superior emulsifiable cutting oil forming a white milky emulsion having longer life. The product forms biostable emulsions facilitating easier handling and disposal.

SYNTHKool 100, 101, 102

Semi-synthetic cutting fluid consisting of carefully selected rust preventive additives and other performance improvers, supplied in solution form. Synthkool 100 & 102 is totally synthetic.

HP Trimofin 14, 15, 16, 18

Oiliness type straight cutting oils. Blends of refined mineral oils and additives improve wetting characteristics. These oils are of non-staining type.

HP Trimofin 20

Non-staining type straight cutting oil treated with chlorinated EP additive. This oil has low viscosity and is light in colour.

HP Trimofin 21

Non-staining type straight cutting oil treated with chlorinated EP additive and fortified with oiliness additives. Suitable for light and medium conditions.

HP Trimofin 23, TRIMOFIN 25


HP Trimofin 26
Non staining EP type straight cutting oil containing chlorine and inactive sulphur fortified with oiliness additives.

- **HP TRIMOFIN 27**
  Non staining EP type straight cutting oil containing chlorine and inactive sulphur fortified with oiliness additives.

- **HP TRIMOFIN 12**
  Premium low viscosity neat cutting oil specially developed for polishing of alloy steel strips. Particularly suitable for applications where belt polishing is done and where high degree of surface finish and mist control are required.

- **TRIMOFIN 19**
  This low viscosity product is used as a honing oil and is used for honing operations in automobile plants.

- **TRIMOFINAL**
  Fully synthetic low viscosity oil suitable for cutting operations of Aluminum. This oil is specially designed for oil mist type cutting systems and where non-staining properties are required. It functions as a coolant, cutting oil and prevents sticking of tool to the workpiece.

- **TRIMOFIN 22/TRIMOFIN 22 CF**
  Compounded low viscosity neat cutting oil specially designed for bearing industry guaranteeing super surface finish. Trimofin 22 CF is a Chlorine free version.

- **HP TRIMOFIN 54**
  Staining EP type straight cutting oil containing active and inactive sulphur fortified with oiliness additives.

- **HP TRIMOFIN 55**
Staining EP type straight cutting oil containing active sulphur and chlorine fortified with oiliness additives possessing medium viscosity.

- **HP TRIMOFIN 56**
  Staining EP type straight cutting oil containing active sulphur and chlorine fortified with oiliness additives possessing medium viscosity with highly potent EP additive package.

- **HP TRIMOFIN 58**
  Staining EP type straight cutting oil containing inactive sulphur possessing medium viscosity. The product is dark in colour.

- **TRIMOFIN 64 / 65 / 66**
  These are special purpose broaching & grinding oils having enhanced EP properties. They contain active sulfur.

- **HYDRULCUT 46**
  Dual-purpose oil suitable for both Hydraulic & cutting applications. The neat oil is suitable for usage with yellow metals as well.

- **HP TRIMOL 225**
  New generation metal working product blended with low viscosity refined mineral oil and potent chlorinated additive.

### ROLLING OILS

- **HP ROLMET N34**
  Non staining rolling oil specially designed for rolling of copper and copper alloys useful in multi roller mills as a bearing lubricant as well.

- **HP ROLMET 40**
  Rolling oil specially designed for rolling of both ferrous and non ferrous metals suitable for usage in sendzimer mills.
HP ROLMET V 45, V 55

HP Rolmet V 45 is compounded rolling oil specially designed for rolling of both ferrous and non-ferrous metals. Particularly useful for cold rolling of carbon and alloy steel, brass and copper.

QUENCHING OILS

HP METAQUENCH 39,40

These are blends of refined base oils and contain no additives. Metaquench 39 is recommended for general purpose quenching of components and is particularly suitable for quenching of cyanided parts. Metaquench 40 is suitable in situations when lower quenching speed is desired.

HP METAQUENCH 42

General purpose compounded quenching oil suitable for quenching of components for conditions when higher quenching speeds are required.

HP METAQUENCH 43

Quenching oil with excellent dispersant properties. The oil is fortified with carefully selected dispersant to provide minimum quench distortion.

HP METAQUENCH 44

Quenching oil with excellent dispersant properties. The oil is fortified with carefully selected dispersant to provide minimum quench distortion. Cooling rates are markedly faster enabling achievement of higher surface hardness.

HP METAQUENCH 85

Marquenching oil suitable for usage for bath temperatures 150 to 220 deg c. Recommended for all marquenching operations which do not require a high quench speed oil.

HP METAQUENCH 86
Marquenching oil suitable for usage for bath temperatures 150 to 220 deg c. Recommended for all marquenching operations which require a high quench speed oil.

**RUBBER PROCESS OILS**

- **HP ELASTO 165, 245, 255**
  Predominantly paraffinic rubber process oils suitable for use as plasticisers. Elasto 165 and 255 are highly paraffinic.

- **HP ELASTO 215 / 216**
  High viscosity paraffinic rubber process oil which can be used by rubber industry where oil resistant to heat aging and with very low volatility is required.

- **HP ELASTO 541**
  Elasto 541 is napthenic type of rubber process oil suitable as general purpose rubber oil.

- **HP ELASTO 710, 715**
  Elasto 710 is aromatic type of rubber process oil with good solvency. The oil is dark in colour and has good solvency. It is compatible with most rubber polymer.

**RUST PREVENTIVES**

- **HP RUSTOP 173, 184**
  Solvent cut back type rust preventive useful under moderate conditions and for interim protection from rusting. Rustop 173 possesses finger print neutralisation and water displacement characteristics. Rustop 184 is a light moderate duty rust preventive giving non drying film.

- **HP RUSTOP 274, 276**
Premium quality solvent cut back type rust preventives useful under moderate to extreme conditions capable rust inhibition for extended periods. The product can be used after dilution or as supplied.

- **HP RUSTOP 283**
  OIL BASED RUST PREVENTIVE WITH EXCELLENT DEWATERING CHARACTERISTICS.

- **RUSTOP 175**
  A premium solvent based rust preventive oil that forms an acid fume resistant film. Specially developed for steel industry for storing stacked and coiled steel strips in presence of humidity.

- **RUSTOP 275**
  A premium low viscosity rust preventive oil specially designed for usage in small bearings in order to enable easier penetration into deep interiors of a small bearing. A tailor made variant of the same is recommended for use by NEI Bearings.

- **RUSTOP 282**
  This is a oil based rust preventive having a higher film thickness.

- **RUSTOP 281**
  Premium rust preventive oil for steel rolling industry using electrostatic oilers for application of rust preventives. Tested by PEA body and found suitable for their oilers.

- **RUSTOP 389**
  This is semi fluid type of rust preventive recommended by certain forging industries for their finished components.

- **RUSTOP 172**
  RUSTOP 172 is recommended where protection is required for ERW Tubes. The product can be used straight without dilution with Kerosine.

- **RUSTOP 284**
RUSTOP 284 is recommended for seamless tubes and can be used with dilution with MTO / Karosine.

- **HP RUSTOP 285, 2861 287, S**
  
  Premium quality oil film type rust preventives. they are lubricating oils containing soluble corrosion inhibitors. Rustop 285 possesses moderate water displacement characteristics. Rustop 286 is oil type non drying combination lubricant cum rust preventive.

- **HP RUSTOP 387, 388**
  
  Greasy film type rust preventives. these products do not cotain any solvents but contain rust preventing additives. Application of these rust preventives is by hot dipping. They are soft waxy solids at room temperatures.

**METAL DRAWING COMPOUNDS**

- **HP DRAWMET 15, 158**
  
  Wire drawing oil fortified with high performance wetting agents. This oil is specially suited for deep drawing of aluminium

- **HP DRAWMET 22**
  
  General purpose compound used for wire/tube drawing of carbon steels and difficult non ferrous alloys. The cream coloured paste consists of inert fillers to impart the requisite film strength.

- **HP DRAWMET 44**
  
  Non staining, water-soluble cream coloured paste for "dry on" or emulsion application. It is manufactured with specially balanced mixture of soap and fat. The recommended dilution ratio with water is between i to 5 percent depending upon the gauge of wire to be drawn.
- **HP DRAWMET 66**
  
  Lubricant specially developed for operations like die forging with marked ability to withstand high temperatures due to fortification with special additives.

- **HP DRAWMET 81 CF**
  
  This is a semi synthetic chlorine free product can be used for boiler tube pipe bending operation. Can also be used for pilgering operation. It can withstand filtration, centrifuging, etc.

- **HP DRAWMET 2000**
  
  A viscous, high molecular weight, liquid polyoxyalkylene polyol has proven to be exceptionally effective water solube drawing lubricant, are used in industrial applications including die casting, forging, steel and automobile manufacture. HP DRAWMET 2000 has excellent film forming properties and chemical and shear stability. Non-corrosive HP DRAWMET 2000 does not sludge or gum. In addition, it has good lubricating action, outstanding compatibility with other materials, and is not affected by hydrolysis, bacteria, oxidation or heat under normal use or storage conditions.