MOLLUBE

British High Performance Lubricants

Metal Working Catalog

MOLLUBE
British High Performance Lubricants

Neat Oils

MOL-MET 22

Description: MOL-MET 22 is extra high performance neat cutting oils. It is chlorine-free and is intended for severe cutting operations especially on difficult to machine steels. it demonstrate superior surface finish, extended tool life and control of built-up edge. Their light color enables the work area to be seen during machining operations. Closer tolerances are consistently achieved. It is formulated to prevent the formation of oil mist in the vicinity of the tools.

Features:

- Longer tool life.
- Higher feed rates lead to reduction in operating cost.
- Improve the surface finish, closer tolerances and
- reduced formation of built-up edge
- Broad multi-purpose capability
- Light transparent color
- Anti-mist formulation

Applications:

- Drilling, Deep hole drilling (less than 20 mm diameter)
- Tapping, Threading, Milling
- Gear shaving
- Parting-off and Broaching
- Automatic lathe operations

MOL-MET 22	Value
Kinematic Viscosity @ 40o C	22
Kinematic Viscosity @ 100o C	3
Flash Point (COC), °C ASTM D 92	160
Specific Gravity @15° C kg/l, ASTM D 1298	0.87
Sulfur, Active	1.6
Anti-Mist Package	Present
Friction Modifier	Present
Chlorine	Nil

Available in : 20 Lit / 208 Lit

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Neat Oils

MOL-CUT BC 32

Description: MOL-CUT BC 32 is a neat cutting oil specially formulated for light to medium-duty machining of ferrous and non-ferrous metals. It is formulated with highly refined mineral oils, and specific EP additives. Efficient combination of the additives provides excellent lubricity and cutting performance with very long tool life and outstanding surface quality of the machined tools.

Features:
- Improved surface finish.
- Heavy metal free formulation.
- Provides increased cutting speeds
- Low smoke formation.
- Suitable for yellow metals

Applications:
- drilling and cutting operations on automatic lathes.
- for light to medium duty machining of any kinds of metals.

MOL-CUT BC 32	Value
Appearance	Visual yellow fluid
Density @ 15°C, g/cm3 ASTM D 1298	0.875
Kinematic Viscosity @ 40°C, cSt ASTM D	32
Viscosity Index ASTM D 2270	100
Flash Point (COC), °C ASTM D 92	Min. 200
Copper Corrosion ASTM D 130	1 a

Available in : 20 Lit / 208 Lit

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Neat Oils

MOL-MET HPT 150

Description: MOL-MET HPT 150 ia viscous fluid containing extreme pressure additives for metal cutting operations. It is suitable for all metals including hardened steels, titaniums and nimonics. This product significantly reduces friction giving superb cutting performance. It can also be added to ordinary mineral cutting oil for the most severe cutting operations, such as broaching and gear cutting on the toughest metals.

Features:
- Ultimate cutting performance
- Doubles tool life
- Excellent surface finish
- Reduces wear and tap breakages
- Minimises waste and scrap
- Reduced friction and increased wear resistance

Applications:
- Applied straight to the cutting operation
- Reaming, Tapping and Drilling
- Available in a handy squeeze bottle for ease of use.

MOL-MET HPT 150	Value
Appearance	Brown, Clear
Density @ 15°C, g/cm3 ASTM D 1298	>1.00
Flash Point (COC), °C ASTM D 92	Min. 100
Copper Corrosion ASTM D 130	4 b

Available in : 20 Lit / 208 Lit

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Neat Oils

MOL-PLUNGER LUBE

Description: MOL-PLUNGER LUBE is a graphite free, semi-synthetic type plunger lubricant intended to be used in the process of aluminimum extrusion and die-casting. It provides an ultra low consumption combined with superior lubricity on the surface.

Features:
- Highly economical
- Provides the manipulation of the plunger speed
- Ultra low evaporation
- Outstanding casting surface quality
- Cleaner application, lower waste formation

Applications:
- Used in the lubrication of hot sleeve and pistons in the process of aluminimum extrusion
- Applied by brushing manually

MOL-PLUNGER LUBE	Value
Appearance	Bright & Clear
Density @ 15°C, g/cm3 ASTM D 1298	>0.92
Kinematic Viscosity @ 40°C, cSt ASTM D	>700
Flash Point (COC), °C ASTM D 92	>300
Copper Corrosion ASTM D 130	1 a

Available in : 20 Lit / 208 Lit

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Forming Grease

MOL-DRW PASTE FR 4000

Description: MOL-DRW PASTE FR 4000 is a special paste type. Composed of low aromatic, highly refined base oils, it is free of PCB and chlorine. It contains special additives to improve lubrication and anti-wear properties to protect the dies, as well as emulsifiers to ensure trouble-free washing upon the end of the operation. It contains unique white solid lubricant that does not scratch surface.

Features:

- EP (Extreme Pressure) additives provide maximum die protection.
- Very easily washable.
- Outstanding protection against corrosion.
- Very good load carrying property.
- Provides less down time.
- High cooling property.

Applications:

- Cold forming operations such as steel, platen and aluminum pressing.
- Deep drawing, bending, blanking, punching and pressing of ferrous metals of medium to high thickness
- Applied by brushing or dipping

MOL-DRW PASTE FR 4000	Value
Appearance	Visual white paste
Density @ 15°C, g/cm3 ASTM D 1298	0.995
Kinematic Viscosity @ 40°C, cSt ASTM D	445
Flash Point (COC), °C ASTM D 92	Min. 150
Copper Corrosion ASTM D 130	1 a

Available in : 15 Kg / 170 Kg

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Forming Grease MOL-FORM DRW BG

Description: MOL-FORM DRW BG is a special paste type. Composed of low aromatic, highly refined base oils, it is free of PCB and chlorine. It contains special additives to improve lubrication and anti-wear properties to protect the dies, as well as emulsifiers to ensure trouble-free washing upon the end of the operation. It contains unique white solid lubricant that does not scratch surface.

Features:
- EP (Extreme Pressure) additives provide maximum die protection.
- Very easily washable.
- Outstanding protection against corrosion.
- Very good load carrying property.
- Provides less down time.
- High cooling property.

Applications:
- Cold forming operations such as steel, platen and aluminum pressing.
- Deep drawing, bending, blanking, punching and pressing of ferrous metals of medium to high thickness
- Applied by brushing or dipping

MOL-FORM DRW BG	Value
Appearance	Visual brown, viscous fluid
Density @ 15°C, g/cm3 ASTM D 1298	> 1.00
Flash Point (COC), °C ASTM D 92 min	200
Anti-Corrosion Test @ 5% DIN 51360/2	0-0

Available in : 15 Kg / 170 Kg

MOLLUBE
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Emulsion Oils

MOL-CUT M 280

Description: MOL-CUT M 280 is high quality milky type soluble oil of outstanding performance. Special emulsifiers produce rich opaque emulsion of marked stability when mixed with water. It provides anticorrosion characteristics coupled with good lubricating and wetting properties which greatly improve cooling at the working area. Incorporates an effective biocide to combat bacterial degradation in system, extending the emulsion life. It is free of phenolic compounds.

Features:
- Good emulsion stability and long coolant life.
- Suitable for wide range of materials and operations.
- Very high ratio of tramp oil rejection.
- Low foaming in soft and hard water.

Applications:
- Used in metal cutting operations for all materials even ferrous or nonferrous

MOL-CUT M 280	Value
Appearance	Visual amber fluid
	(5% emulsion) Visual Milky
Density @ 15°C, g/cm3 ASTM D 1298	0.89
Mineral Oil Content	80%
pH @ 5% DIN 51369	8,5 - 8,9
Refractometer Coefficient	1.00
Corrosion Protection, 15°dh, 5% DIN 51360/2	0-0

Available in : 20 Lit / 208 Lit

MOLLUBE
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Emulsion Oils

MOL-CUTSYN 320

Description: MOL-CUTSYN 320 is a semi synthetic oil with high performance additives of water miscible and anti-corrosion. Having a high biological stability and resistant of bacterial and fungal attacks and provides long-life usage. Besides having an excellent lubricity, it also maintains highly stable emulsion even in difficult working environments where there is leakage of oil into the emulsion or bacterial growth. Its exceptional detergency property ensures cleaning of the machine tools. It forms an odorless solution.

Features:

- High detergency formula.
- Outstanding protection against rust.
- Good cooling properties.
- Prevent bacterial and fungal formation.
- Provide very stable solution.
- Extreme low foaming behavior.
- Suitable for use in hardness water

Applications:

- Specially developed for metal working processes.
- Developed for the CNC machining of cast iron, steel, aluminum and any other non-ferrous metals.

MOL-CUTSYN 320	Value
Appearance	Visual light brown, Clear
Density @ 20°C, g/cm3 ASTM D 1298	1.02
Mineral Oil Content	20%
pH @ 5% DIN 51369	9.2
Refractometer Coefficient	1.8
Foaming Test (500 ppm water @ 5% emulsion)	No

Available in : 20 Lit / 208 Lit

MOLLUBE
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Emulsion Oils

MOL-CUTSYN 400

Description: MOL-CUTSYN 400 is a fully synthetic oil with high performance additives of water miscible and anti-corrosion. Having a high biological stability and resistant of bacterial and fungal attacks and provides long-life usage. Besides having an excellent lubricity, it also maintains highly stable emulsion even in difficult working environments where there is leakage of oil into the emulsion or bacterial growth. Its exceptional detergency property ensures cleaning of the machine tools. It forms an odorless solution.

Features:

- High detergency formula.
- Outstanding protection against rust.
- Good cooling properties.
- Prevent bacterial and fungal formation.
- Provide very stable solution.
- Extreme low foaming behavior.
- Suitable for use in hardness water

Applications:

- Specially developed for metal working processes.
- Developed for the CNC machining of cast iron, steel, aluminum and any other non-ferrous metals.

MOL-CUTSYN 400	Value
Appearance	Visual blue, Clear
Density @ 20°C, g/cm3 ASTM D 1298	1.10
Mineral Oil Content	0%
pH @ 5% DIN 51369	9.5
Refractometer Coefficient	1.9
Foaming Test (500 ppm water @ 5% emulsion)	No

Available in : 20 Lit / 208 Lit

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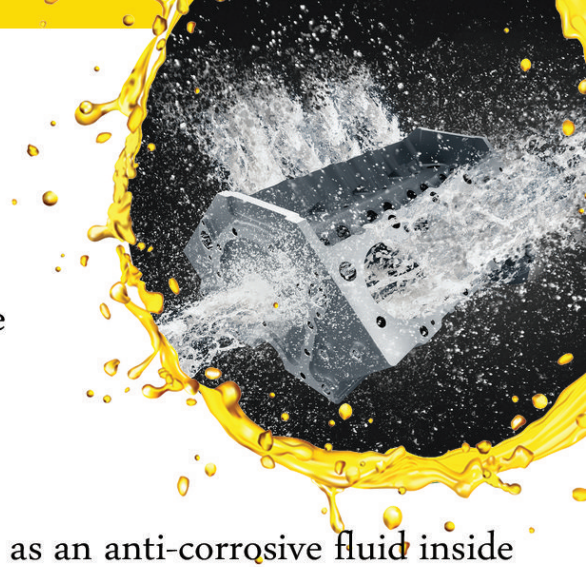
Cleaner Oils

MOL-RUSTSTOP 50 W



Description: MOL-RUSTSTOP 50 W is a water soluble rust preventive based on mineral oil, preventive and emulsifiers additives. It forms an opaque white, stable and homogenous emulsion once mixed with water. It forms a thin oily non-sticky film on the bare or phosphate metal surfaces, which provides excellent corrosion protection.

Features:

- Provides effective protection against corrosion.
- Cleaned easily from the metal surface in solvent or alkaline degreasing baths.
- Can be safely used in conditions where rust is a concern especially on the iron and steel materials

Applications:

- Used as an anti-corrosive fluid inside the radiator and hydraulic water systems.

MOL-RUSTSTOP 50 W	Value
Appearance	Visual Brown, Clear
Density @ 15°C, g/cm3 ASTM D 1298	0.93
Flash Point (COC), °C ASTM D 92 min	160
Kinematic Viscosity @ 40°C, cSt	58
pH @ 5% DIN 51369	9.5
Refractometer Coefficient	0.95
Corrosion Test @ 5% DIN 51360/2	0-0

Available in : 20 Lit / 208 Lit

MOLLUBE
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Cleaner Oils

MOL-CLEAN INF

Description: MOL-ClEAN INF is an aqueous, mild alkaline industrial cleaner, formulated to provide iron corrosion inhibition and a low foaming profile.

Features:

- Good detergency properties.
- Excellent bio stability.
- Low foaming at ambient temperature.
- Reduces maintenance and disposal cost.
- Minimizes scrap rate which improves productivity.
- Leaves a temporary corrosion preventive film on the metal

Applications:

- Inter-operational and final cleaning operations of ferrous parts
- Wide range of industrial spray and high pressure process cleaning.
- Particularly recommended where good corrosion protection is required

MOL-CIEAN INF	Value
Appearance	Visual Clear, pale yellow liquid
Density @ 15°C, g/cm3 ASTM D 1298	1.05
pH @ 3% ASTM E 70	10.6
Refractometer Factor	2.7

Available in : 15 Kg. / 170 Kg.

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General Oils

MOL-HYDRAULIC Series

Description: MOL-HYDRAULIC series is high performance anti-wear hydraulic oils developed for high pressure hydraulic systems operating under moderate to severe conditions in mobile and industrial service. Formulated with high quality base oils and carefully selected performance additives to provide excellent protection against oxidation degradation, rust, corrosion and wear. They also possess superior foam control, water separation and rapid air release properties.

Features:
- Excellent thermo-oxidative stability.
- Compatible with multi-metals and sealing materials
- Rapid air release property.
- Superior demulsibility .

Applications:
- Mobile hydraulic fluid power transmission systems.
- Industrial general machine

MOL-HYDRAULIC	Method	Unit	32	37	46	68	100
Appearance	Visual	-	B&C	B&C	B&C	B&C	B&C
Density @ 15° C	ASTM D 4052	g/cm^3	0.875	0.876	0.880	0.885	0.890
Kinematic Viscosity @ 40° C	ASTM D 445	cSt	32	37	46	68	100
Kinematic Viscosity @ 100° C	ASTM D 445	cSt	5.4	5.9	6.7	8.9	11.1
Viscosity Index	ASTM D 2270	-	99	99	98	97	96
Flash Point, (COC)	ASTM D 92	°C	219	220	232	238	251
Pour Point	ASTM D 97	°C	-30	-30	-29	-23	-23
Corrosion Test	ASTM D 665	Passes					

Available in : 20 Lit / 208 Lit

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General Oils

MOL-GEAR Series

Description: MOL GEAR series are CLP class high performance extreme pressure gear oils developed for lubrication of heavy-duty industrial gears working under severe operating conditions. Blended from high quality base stocks and sulphur-phosporous type extreme pressure additive system that gives excellent load carrying capability to provide protection against shock loading and wear. The high thermo-oxidative stability of the oil helps resist high temperature deposit formation and oil thickening.

Features:
- Excellent load carrying .
- High thermo-oxidative stability .
- Provides effective rust and corrosion protection.

Applications:
- Industrial spur, helical, bevel and steel-onsteel worm gears.
- Suitable for splash, mist and circulating systems.

MOL-GEAR	Method	Unit	68	100	150	220
Appearance	Visual	-	B&C	B&C	B&C	B&C
Density @ 15° C	ASTM D 4052	g/cm^3	0.887	0.891	0.897	0.899
Kinematic Viscosity @ 40° C	ASTM D 445	cSt	68	100	150	220
Kinematic Viscosity @ 100° C	ASTM D 445	cSt	8.7	11.4	15	19.4
Viscosity Index	ASTM D 2270	-	99	100	100	100
Flash Point, (COC)	ASTM D 92	°C	236	240	240	240
Pour Point	ASTM D 97	°C	-24	-24	-24	-18

Available in : 20 Lit / 208 Lit

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General Oils

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Features:
- Excellent load carrying .
- High thermo-oxidative stability .
- Provides effective rust and corrosion protection.

Applications:
- Industrial spur, helical, bevel and steel-onsteel worm gears.
- Suitable for splash, mist and circulating systems.

MOL-GEAR	Method	Unit	320	460	680	1000
Appearance	Visual	-	B&C	B&C	B&C	B&C
Density @ 15° C	ASTM D 4052	g/cm^3	0.903	0.904	0.912	0.931
Kinematic Viscosity @ 40° C	ASTM D 445	cSt	320	460	680	1000
Kinematic Viscosity @ 100° C	ASTM D 445	cSt	25	30.8	38	45.5
Viscosity Index	ASTM D 2270	-	100	97	92	85
Flash Point, (COC)	ASTM D 92	°C	255	260	272	290
Pour Point	ASTM D 97	°C	-15	-12	-9	-6

Available in : 20 Lit / 208 Lit

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