



METALWORKING FLUIDS



Crown Oil
Fuels and Lubricants

SOLUBLE METAL WORKING FLUIDS

CROWNOSOL SSEP

A semi-synthetic, formaldehyde release, biocide free, water mix fluid for arduous applications.

A medium oil content product with EP additives giving superb machining performance in tough machining operations.

Low foaming and works well in both hard and soft waters.

Suitable for use on a variety of steel alloys and can be used for the machining of non-ferrous alloys.

An extremely robust coolant that gives extended service life in the most difficult conditions.

Machining operations: turning, milling & drilling, tapping & threading, reaming & deep hole drilling surface & cylindrical grinding.

Material suitability: ferrous alloys [RAI], aluminium alloys, yellow metals.

CROWNOSOL SS

This semi-synthetic oil is a biostable soluble oil concentrate designed to form a light blue micro-emulsion when mixed with water.

The formulation exhibits high levels of corrosion protection without any additions of sodium nitrate and the inherent stability of the base maximises the bio-resistance and helps reduce the potential for contact corrosion.

Long sump life characteristics are achieved using a unique anti-fungal system which incorporates a synergistic blend of PCMC and formaldehyde-free additives.

A complex amine is used to reduce the potential for skin irritation and is also a means of further improving the anti-bacterial quality of the emulsion. It also ensures that any residues will be fluid rather than sticky.

The oil contains modified surfactants to reduce the formation of calcium soaps and scums in hard water and has been tested in the laboratory up to 500 ppm CaCO₃.

Foam potential in soft water has been addressed and is reduced to a minimum.

CROWNOSOL LCM

A high oil content cutting fluid concentrate which incorporates a modified boron ester bio-stability package to give high quality milky emulsions when used within the 4-6% range with water.

The formulation also includes a unique corrosion inhibition system to provide levels of corrosion protection not normally available from conventional milky products, which offers excellent protection for the machine tools, slideways and working areas.

The oil has a biocide package to give long sump life with minimum environmental impact. It is suitable for use on all ferrous and non-ferrous materials.

CROWNOSOL BMEP

This cutting fluid concentrate incorporates a modified boron ester bio-stability package, to give high quality milky emulsions, when used within the 3-10% range with water.

The fluid contains a corrosion inhibition package, providing excellent protection of the machine tool slideways and working areas.

With a chlorinated extreme pressure additive, it enables the product to be considered for use in very heavy-duty applications or where tooling costs dictate the requirement for a product which will significantly extend the life of carbide tips.

NEAT METAL WORKING FLUIDS

NEAT CUTTING OIL

This product is a multi-purpose neat cutting oil containing anti-weld, anti-wear and lubricity additives and is designed for all general machining on ferrous and non-ferrous materials. It gives a high standard of finish and good tool life in machining operations.

Components made of copper and its alloys should not be immersed in the cutting oil for long periods in order to avoid any risk of staining.

This range of oil is recommended in all situations from work on low tensile steel through to stainless steel and nickel alloy.

RECOMMENDED USE

- ✓ GP1 – general machining and low tensile steels
- ✓ GP2 – high tensile steels and arduous operations
- ✓ HD – milling, tapping etc and extreme operations
- ✓ HD+ – broaching, on stainless steels, nickel alloys etc
- ✓ F15 – milling, tapping etc and extreme operations, low viscosity

NEATCUT CF 10

A multi-purpose, low viscosity, neat cutting oil, containing anti-weld, anti-wear and lubricity additives, formulated for arduous machining on ferrous and non-ferrous materials.

Component made of copper and its alloys should not be immersed in the cutting oil for long periods in order to avoid any risk of staining.

Recommended in all situations from work on low tensile steel through to stainless steel and nickel alloy.

BENEFITS

- ✓ Gives a high standard of finish and excellent tool life in machining operations
- ✓ Light coloured
- ✓ Low odour
- ✓ Non-staining
- ✓ Extreme pressure performance
- ✓ Non-active components = user friendly
- ✓ Chlorine free

PRODUCT INFORMATION

NEAT CUT LV

This oil is a multi-purpose, neat cutting oil containing anti-weld, anti-wear and lubricity additives and is designed for all general machining on ferrous and non-ferrous materials. It gives a high standard finish and good tool life in machining operations.

Components made of copper and its alloys should not be immersed in the cutting oil for long periods in order to avoid any risk of staining. This range of oil is recommended in all situations from work on low tensile steel through to stainless steel and nickel alloy.

RECOMMENDED USE

- ✓ GP1 – general machining and low tensile steels.
- ✓ GP2 – high tensile steels and arduous operations.
- ✓ HD – milling, tapping etc and extreme operations.

BENEFITS

- ✓ Light coloured
- ✓ Low odour
- ✓ Non-staining
- ✓ Extreme pressure performance
- ✓ Non-active components = user friendly

GRADE	OPERATION										MATERIAL				
	Drilling	Turning	Reaming	Boring	Broaching	Milling	Grinding	Tapping	Deep Hole Boring	Sawing	Mild Steel	Stainless Steel	Cast Iron	Brass	Aluminium
NEAT OILS															
GP 1	✓	✓				✓				✓	✓		✓	✓	✓
GP 2	✓	✓	✓	✓						✓	✓		✓	✓	✓
HD	✓	✓	✓	✓		✓		✓	✓	✓	✓		✓	*	*
HD+	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	*	*
AC 3	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	*	*
SOLUBLE OILS															
CROWNOSOL SS	✓	✓				✓	✓	✓			✓	✓	✓		
CROWNOSOL BMEP	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
CROWNOSOL SSEP	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CROWNOSOL LCM	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓
CROWNOSOL (Fully Synthetic)	✓	✓				✓	✓	✓		✓	✓	✓	✓		
CROWNGRIND							✓				✓	✓	✓		

* Stain test recommended on sensitive materials

Please contact Crown Oil for Nickel or Titanium Machining



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