



GLOBALSYNTH

GLOBALSYNTH LUBRICANTS PVT LTD

An ISO 9001 : 2015 CERTIFIED COMPANY

*Water soluble
cutting fluids
smart industrial solutions*



Industrial Lubricant technology expert

CIN - U23209DL2021PTC382265



Metalworking Fluids at the cutting edge



Our metalworking fluids perform to the highest standards in today's demanding manufacturing environment. We create smart products that extend tool life and reduce operating costs, while staying a step ahead of the increasing demands arising from higher fluid pressures, faster cutting speeds, new materials and advanced tool technologies.

By offering a range of fluids from general purpose through to extreme performance products, we help our customers balance cost with criteria such as surface finish, severity of the operation, working environment and productivity.

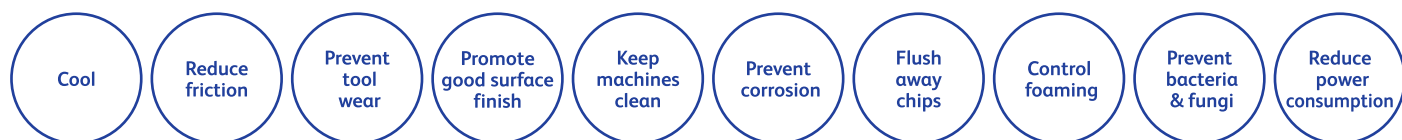
Our technologically advanced ranges of metalworking fluids are fully compliant with the latest legislation:

Brunel: our flagship range for the most advanced applications. Free of formaldehyde, chlorine, secondary amines, boron and boric acid

Berlio: free of formaldehyde, chlorine and secondary amines



Benefits of Oils metalworking fluids:



Improve quality

Reduce manufacturing cost

Increase health & safety

GLOBALSYNTH SOLCUT EP

GLOBALSYNTH SOLCUT EP is a general-purpose chlorine-free water-soluble cutting fluid. It forms a stable milky emulsion of high lubricity when diluted with water and is resistant against bacterial spoilage. GLOBALSYNTH SOLCUT EP contains an advanced Biocide designed to protect against both gram-negative and gram-positive bacteria.

SUMMARY OF BENEFITS

- High emulsion stability and excellent resistance to bacteria
- Excellent cooling and lubrication
- Superior corrosion protection
- Low foaming and resistant to biological degradation
- Suitable for both ferrous and non-ferrous metals
- Extends tool life over conventional soluble oils



APPLICATIONS

GLOBALSYNTH SOLCUT EP is designed for machining applications such as drilling, milling, tapping and threading of bronze, brass, copper, aluminium, mild steel, low and high carbon alloys and stainless steels.

	RECOMMENDED RATIOS WITH WATER
Mild Steel and Brass	5-10%
Medium Steel	5-6%
Hard Steel/Stainless Steel	10%
Aluminium	4-5%
Grinding	2-3%

Note: When using a single mixture for multiple operations and different metal types it is recommended to use 10% mixture to cover all operations and metal.

When mixing always add oil to water while stirring, not water to oil. When putting a new charge, ensure system (including internals and piping system) is flushed and disinfected properly to ensure all bacteria are killed.

SPECIFICATIONS

It meets BIS 1115-1991 specifications and is recommended for cutting operations on both ferrous and non-ferrous metals.

TYPICAL PHYSICO-CHEMICAL DATA

CHARACTERISTICS	METHOD	VALUE
Colour, Oil	Visual	Brown
Appearance, Oil	Visual	Clear
Colour, Emulsion	Visual	Milky White
Copper Corrosion, 1000C, 3 hr	ASTM D130	1a
Emulsion Test, 5:1 & 20:1 ratio in water of 700 ppm hardness (as CaCO ₃)	IS 1448 P:68	No oil, no cream
Frothing Test, 5:1 & 20:1 ratio in water of 400 ppm hardness (as CaCO ₃)	IS 1448 P:99	Passes(no froth)
Thermal Stability Test	IS 1448 P:100	Passes
Refractometer Factor		1.0
pH, at 5% in distilled water		9.3

These characteristics are typical values and do not represent a specification.





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