

Product Data

ZIE MULTICUT SS Micro Emulsion Cutting oil

Description:

ZIE MULTI CUT Multicut-SS is blended from selective highly refined base oil and bio stable special additives to provide a stable translucent micro emulsion in most waters which provides highly resistant to bacterial and fungal degradation, excellent cooling leads to tool long life and inhibited against staining of various ferrous metals including non-ferrous metals. This product is specially designed for extended sump life with better tool life.

Recommended concentration	
Application / Operation	Concentration
Grinding	2 to 3 %
Normal Operation	4 to 6 %
Drilling, Boring, Reaming etc.	7 to 10%

It provides low forming even in soft water and has excellent anti-corrosive property. It has stable emulsion in 800 ppm hard water. It doesn't contain Nitrites, sulphates, Phosphates and chlorine. It contains specialty additives which increase coolant life, keep machines exceptionally clean, enhance work piece quality and surface finish.

APPLICATION:

ZIE MULTI CUT SS is fully formulated with semi-synthetic additive which gives translucent emulsion able to flush away the chips from the cutting zone and carry them back to the sump. This will help in avoiding abrasive wear or at least reduce wear and thus the surface finish is improved. It provides protection against rust and corrosion of machine work piece and tools.

This oil is recommended for Grinding, Milling, Drilling, Turning, Boring heavy-duty cutting, general machining, tapping and Broaching.

It's suitable for machining of all ferrous, cast iron and carbon steels alloys.

Mixing:

Add oil to water slowly with constant stirring to make an emulsion. Do not add water to the oil. A mixing unit is recommended for better results.

Typical characteristics:

CHARACTERISTICS	TEST METHODS	ZIE MULTICUT-SS
Colour,	Visual	Light Brown
Colour, Emulsion	Visual	Translucent to off white
Cast Iron corrosion test 3 % ratio emulsion with 400 ppm hardness (as Ca CO ₃)		0/0-0 (no corrosion) passes
'pH@ 5% in distilled water	-	9.4
'pH@ 10% in distilled water	-	9.5
Frothing test 200ppm hard water		No froth
Refractometer Factor		1.40
Thermal Stability test	IS 1448 P:100	Passes
Emulsion test 5:1 & 20:1 ratio in water of 400ppm hardness (as Ca CO ₃)	IS 1448 P:68	No oil, no cream

The above figures are typical figures with normal production tolerance.

BENEFITS:

- Provides longer sump life.
- Provides excellent corrosion protection and PH stability.
- Excellent lubricity anti wear properties.
- It is free from chlorine, phosphates and harmful chemicals.
- It cleans parts by removing rust and displaces water and oil from metal surfaces.
- It provides long lasting stable emulsions.

Health & Safety

These oils are unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of industrial and personal hygiene are maintained.

All reasonable care has been taken to ensure that the information contained in this publication is accurate as at the date of printing. It should be noted however that the information above may be affected by changes occurring subsequent to the date of printing in the blend formulation or methods of application of any of the products referred to or in the requirements of any specification approval relating to any such products.