

Product Data Sheet



IPOL Enhanco Biocut SS 300 LX

Biostatic, micro –emulsion semi-synthetic coolant

Description:

IPOL Enhanco Biocut SS 300 LX is a high performance biostatic semi- synthetic product specially designed for the long life and superior performance in Machining as well as Grinding operation of ferrous metals. This quality product with high mineral oil and EP/AW additive will ensure improved surface finish of components

This Enhanco Biocut SS 300 LX is free from secondary amine, phosphate, Nitrite & Nitrate with very high performance lubricity additives. Most versatile product, can be used on Cast Iron, MS, alloy steel, SS for machining with very good flushing properties.

Salient Features & Benefits:

- Excellent lubrication package with unique approach to machining results in significant reductions in tool wear & reduces overall tool cost.
- Biostable technology provides excellent sump life & microbiological resistance.
- Excellent corrosion resistance on ferrous alloys at recommended use concentration.
- Better visibility of the machining operation as the product gives translucent stable emulsion.
- Micro-emulsion forms a tight, very stable micro-emulsion that provides excellent boundary lubrication for high speed operation, reject tramp oil & reduces carry –off.
- Low foaming in soft-to-moderate water hardness condition.
- Good surface finish
- Good skin compatibility

Application:

Recommended for grinding as well as machining operation on Cast Iron & Steel.

Suggested concentration ≥ 4 to 8% depending up on operation.

Advisable to use with water hardness of 100 - 200 ppm & Chloride level of less than 20 ppm

Concentration Control:

Good control of coolant concentration is important to maintain optimum performance of the Semi-synthetic coolant also this ensures the chemical & biological stability of your fluids. Proper concentration also helps to keep your total operating cost mainly tooling & chemical at a minimum.

Characteristic:

Properties	Methods	Typical Test Value
Colour	Visual	Light amber
Density @ 30 °C	ASTM D 1298	0.97
pH value 5 % ,100 ppm water	In-house	9.6
Emulsion appearance	Visual	Translucent
Corrosion Threshold	% DIN 51236T2	3
Refraction Index Factor	%/Brix	1.25

(The above data is typical & does not constitute a specification. The information provided is not to be taken as a warranty or representation for which we assume legal responsibility, nor as permission or recommendation to practice any attended location or otherwise. It is solely offered for your consideration, investigation and verification.)

Storage & Handling:

The product is available in 210 & 26 Ltr HDPE drums. All containers are filled to volume by weight.

This product has shelf life of 6 months. Like most chemicals, it should be stored out of direct sunlight in temperature between 4 & 43 °C.

Safety and Precautions:

IPOL Enhanco Biocut SS 300 LX is unlikely to present any significant health hazard when proper personal and industrial hygiene are maintained.