Product Data Sheet

IPOL Enhanco Biocut SS 350

Biostatic, Micro – Emulsion Semi-Synthetic Coolant

Description:

IPOL Enhanco Biocut SS 350 is a high performance biostatic, semi- synthetic coolant, designed to give better performance in grinding as well as other machining operations of cast-iron components. This oil can also be used for machining of steel and mild steel components. This product contains high end additive chemistries with perfect balance of emulsifiers, coupling agents, biocides and surfactants. Improved lubricity performance is ensured by presence of high quality esters

Salient Features & Benefits:

- Based on micro-emulsion technology. Gives translucent emulsion.
- Better visibility of work-piece and tool-piece during the machining application.
- Advanced lubricity components ensures good tool life.
- Improved corrosion resistance of machine parts and machined components
- Bio-stable product. Long Sump life. Reduced Maintenance costs.
- Operator Friendly. Low foaming tendency
- Well suited for giving optimum performance on cast-Iron components.
- Suitable for stand-alone as well as centralized coolant systems

Application:

Recommended Concentration:

Operation	Cast iron	Mild Steel	Alloy Steel	Other Steel
Grinding & Turning	3 – 5%	3 – 5%	4 – 6%	4 – 6%
Milling, Reaming, Boring	4 – 6%	5 – 7%	5 – 8%	5 – 8%
Drilling, Tapping, Threading	4 – 6%	5 – 7%	5 – 8%	5 – 8%

Concentration Control:

Control on Coolant concentration is important to get optimum performance from Semi-synthetic coolant. This also ensures the chemical & biological stability of the Sump. Proper concentration also helps to keep your total operating cost mainly tooling & chemical at a minimum.

If Concentration of Sump is more than the recommended level	If Concentration of Sump is less than the recommended level
Do not add Water to the system directly	Do not add Oil to the system directly
Addition of Lean Emulsion of 1-3% concentration to sump recommended	Addition of Over-strength Emulsion of 8 to 10% concentration to sump recommended

Revision No. 2

Revision Date: 20th May 2020

GP Petroleums Limited

803/804, Akruti Star, 8th floor, MIDC Central Road, Andheri (E), Mumbai – 400-093 Maharashtra, India. T: 022-61482500 E: info@gulfpetrochem.com Website: www.ipollubes.com





Physical Properties:

Properties	Methods	Typical Test Values
Colour	Visual	Light amber
Sp Gravity @ 30 ^o C	ASTM D 1298	1.02
pH value 5 % ,100 ppm water	In-house	9.18
Emulsion appearance	Visual	Translucent
Cast Iron Chips test	% DIN 51360-2	3%
Bio-Stability	Proprietary	Good Bio-stability
Foaming tendency	ASTM- D 892	Passes
Refraction Index Factor	%/Brix	1.52

(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.)

Coolant Management Guidelines:

- Ensure that the machines are clean, before charging the Fresh Emulsion
- During preparation of Emulsion, always add Neat Oil (Coolant) to Water.
- Never add Water to the Coolant
- While addition of Coolant to Water, the agitator must be on to ensure proper mixing
- Check & maintain the Emulsion Concentration on daily basis
- Do not allow the Emulsion to stay idle for longer period.
- Top-ups to the Sump should be done in the form of Emulsion.
- Never add only Water or Coolant to the Sump directly
- Maintaining the proper concentration gives satisfactory performance
- If the Coolant is maintained properly, Microbial growth is minimized
- Remove the debris, tramp oil from the system on regular basis to enhance the sump life and keep the fluid healthy

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 9 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 350 is unlikely to present any significant health hazard when proper personal and industrial hygiene are maintained.

Revision No. 2

Revision Date: 20th May 2020

Page: 2 of 2

GP Petroleums Limited

803/804, Akruti Star, 8th floor, MIDC Central Road, Andheri (E), Mumbai – 400-093 Maharashtra, India. T: 022-61482500 E: info@gulfpetrochem.com Website: www.ipollubes.com