Cutting Oil

Product Information and Data Sheet

Hi-Tech SEMI SYNCUT 23

High Performance Semi Synthetic cutting oil

Description

Hi-Tech Semi SynCut 23 is an environmentally friendly semi-synthetic cutting fluid. It maintains a constant pH value and formaldehyde-free emulsion technology that give a very long sump-life. It assures uniform concentrated oil drops on the cutting tools, which ensures high quality finishing on the component being worked on compared to the conventional products. It contains special lubricity & E.P. additives and rust inhibitor, which protects ferrous components during the machine operations. It enhances the characteristics of performance.

Application

Hi-Tech Semi SynCut 23 cutting oil is excellent for the machining of all ferrous, non – ferrous metals and other applications including grinding, milling drilling, turning, boring, punching, reaming, sawing, broaching and tapping, etc.

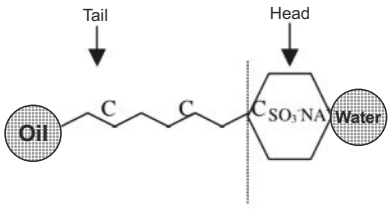
Features

- Low foaming and high detergency.
- Extended sump life and tool life.
- Perfect surface finish and less heat generation.
- Free from Phenol/Cresol and Nitrite.
- Induce reduction of disposal cost.
- Forms highly stable emulsion with water.
- Encourage sump life and low maintenance cost.
- Provide excellent cooling, lubrication and rust prevention.

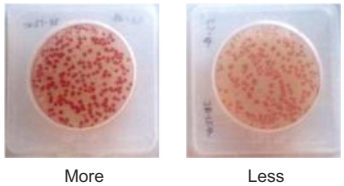
Technical Properties

Characteristics	Test Methods	Unit	Specifications
Appearance (Emulsion)	Visual	-	Semi-translucent
Appearance (Concentrate)	Visual	-	Brown
Density @ 29.5°C	D 4052	Kg/l	1.01
pH@5% in 400 ppm $CaCO_3$ in water	E 70	-	9.4
Refractometer Factor	-	-	1.38
Foam Dispersion in 5%, 250 ppm water	IP 312	Sec	<14
Rust prevention characteristics of water-mix metal working fluids	IP 287	%	3 % BP

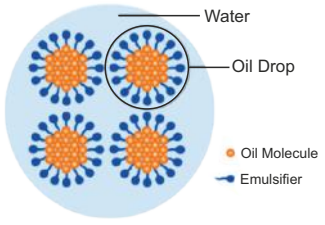
In order to preserve the integrity of this product, drums should be stored inside a building protected from frost and direct sunlight. Please consult the MSDS for instructions regarding safe handling and environmental issues.



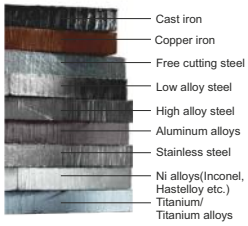
Schematic representation of the emulsifier molecule



Microscopic Slide of colony growth



Oil, water and emulsifier mix



Machining Stress

HITECH SOLUTION
SPEED INNOVATION EXCELLENCE