

HAROLBIO 2

Description:

It's a whole cooling lubricant, free from mineral oil, formulated for chip removal operations of ferrous and non-ferrous metals.

It's formulated with state of the art raw materials, consisting of natural synthetic esters refined with a unique method and mixed with antioxidant and antirust additives and metallic passivators.

Features:

- no formation of smoke and vapours during the process;
- a high flashpoint for operations in complete safety;
- an excellent smoothness even at low temperatures and an exceptional wetting power, for which the oil disperses quickly and uniformly on the metallic surface;
- excellent greasing power, EP and detaching cutting power, for high quality finishes;
- good resistance to oxidation and rust;
- good anti-wear power;
- low temperature of the processed pieces;
- well crushed and shredded scrap;
- complete biodegradability;
- maximum tolerance by the operators because it does not contain any harmful and irritant components.

The product is free from chlorinated and/or sulphorated compounds and it doesn't contain aromatic polycyclic hydrocarbons (IPA).

Application:

All the removal and cutting operations, also the heavy ones, with both traditional jet lubrication systems and minimal spray lubrication systems, on ferrous and non-ferrous materials, titanium included.

Warnings:

The product is not suitable for yellow metals machining. If required, please contact our Technical Sales Office.

AVERAGE CHEMICAL AND PHYSICAL PROPERTIES*

Density at 20°C	ASTM D 1298	Kg/lit	0,888
Viscosity at 40°C	ASTM D 445	cSt	21
Viscosity at 100°C	ASTM D 445	cSt	5,4
Viscosity Index	ASTM D 2270	-	209
Flashpoint	ASTM D 92	°C	224
Fire point	ASTM D 92	°C	258
Clouding Point	Visual	°C	-10
Brugger	DIN 51347	N/mm ²	23

*Data do not constitute any specification

Issue date: 24/02/2016