

HAROLBIO 0

Technical Data Sheet

Description:

It's a very fluid neat cooling lubricant, free from mineral oil, formulated for lapping, smoothing, chip removal and grinding operations of ferrous and non-ferrous materials.

It's formulated with state of the art raw materials, consisting of wholly saturated synthetic esters, with additives to enhance cutting performance. It has a very high hygienic and environmental compatibility.

It provides:

- no 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;
- exceptional greasing, EP and detaching 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;
- outstanding anti-welding cutting power;
- 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 sulfur compounds, and it does not contain polycyclic aromatic hydrocarbons (PAHs)

Application:

All the operations, also the severe ones, with both traditional jet lubrication systems and minimal spray lubrication systems, on ferrous and non-ferrous metals, including titanium, when it's required a product with a high degree of fluidity. Also suitable for high performance grinding operations of steels, in particular stainless steel, hard metals, graphites; excellent with all types of grinding wheels including those in CBN.

AVERAGE CHEMICAL AND PHYSICAL PROPERTIES*

Density at 20°C	ASTM D 1298	Kg/lt	0,857
Viscosity at 40°C	ASTM D 445	cSt	5,241
Viscosity at 100°C	ASTM D 445	cSt	1,84
Viscosity Index	ASTM D 2270	-	152
Flashpoint	ASTM D 92	°C	200
Fire point	ASTM D 92	-	228
Cloud Point	AOCS Cc6-25	°C	< 0
RPVOT	ASTM D 2272	Min.	320

*These data do not constitute any specific

Issue date: 08/11/2016