

## OLICUT 515

### DESCRIPTION:

Biodegradable, synthetic cutting fluid formulated from esters. It does not contain mineral oils nor chlorinated additives. This product is especially designed for use in MQL lubrication systems (Minimum Quantity Lubricant).

### APPLICATIONS:

OLICUT 515 is formulated from selected synthetic bases, EP (extreme pressure), antioxidant and anticorrosive additives. Suitable for general machining and high severity operations such as turning, milling, drilling, sawing, threading etc. Particularly suited to use in MQL lubrication systems by microspraying as well as in high-precision applications requiring an excellent surface finish.

Compatible with all kinds of metals (both ferrous and non-ferrous alloys): castings, high tensile strength steels, stainless steels and copper or aluminium alloys.

### PROPERTIES/ADVANTAGES:

Highly biodegradable product (>90%), not causing any negative impact on the environment.

Reduction in smoke emission and fog formation with regard to mineral oils, allowing an increase in cutting speeds without the need to install extraction systems. Improvement in worker safety.

Reduced friction between the part and the tool, thereby reducing wear and tear and, consequently, increasing the tool's working life. This gives rise to an increase in the platelet change and sharpening intervals and hence to a drastic reduction in maintenance costs.

Excellent surface finishes of the machined parts.

Does not stain nor darken the parts.

The use of OLICUT 515 in MQL systems has the following benefits:

- Elimination of waste management costs as the fluid is removed with the shaving, the part and by evaporation.
- Optimum fluid consumption. Savings on fluid consumption compared with the traditional products.
- Removal of the emulsifiable fluids filtering and cooling systems.
- Higher cutting speeds, entailing a reduction in production time and greater efficiency in the machining process.
- In many cases subsequent cleaning of the machined parts is not required as the latter are almost dry.
- Respect towards the workers. Reduction in working risks and improvement in corporate image.

### TECHNICAL DATA:

PHYSICOCHEMICAL CHARACTERISTICS	STANDARD	VALUE
Colour	ASTM D-1500	L-1.0
Viscosity at 40°C (cSt)	ASTM D-445	35
Density at 15 °C (Kg/m <sup>3</sup> )	ASTM D-1298	917
Flashpoint, COC, (°C)	ASTM D-92	>250
Steel corrosion	CETA 20516	Compliant
Copper corrosion, 3h, 100°C	ASTM D-130	1a
4-Ball Wear Test, track diameter (mm)	ASTM D-4172	<0,7
4-Ball EP Test, weld load (kg)	ASTM D-2783	>620

### PACKAGING:

20L jerry can and 50L & 200L drums.