

PLANTOCUT MIKRO 10SR

Low viscosity neat cutting fluid based on modified vegetable based raw materials suitable for a broad range of applications

Description

PLANTOCUT MIKRO 10SR contains carefully selected and matched chlorine free EP additives and is remarkably copper-inactive.

PLANTOCUT MIKRO 10SR:

- | Is >90% biodegradable according to CEC-L-33-T-82
- | has extremely low evaporating characteristics
- | is mineral oil and water free
- | is non-water soluble
- | is non-toxic
- | is odour-free
- | is non-water polluting (WPC 0)
- | is skin compatible
- | is oxidation stable

Benefits

- | No residue on work pieces
- | Dry work pieces, machines and swarf
- | No cutting fluid disposal necessary
- | Increased tool life
- | Higher performance than conventional fluids

Application

PLANTOCUT MIKRO 10SR is recommended for all chip-forming operations on high-tensile steel, aluminium, aluminium alloys and non ferrous metals which require a low viscosity "oil".

PLANTOCUT MIKRO 10SR is especially suitable for grinding keyways and drill flutes as well as honing cast iron and steel.

PLANTOCUT MIKRO 10SR was also developed for minimum quantity lubrication (MQL) metalworking operations on aluminium, cast iron, non-ferrous steel and steel alloys.

PLANTOCUT MIKRO 10SR is highly effective at low dosages and thus significantly reduces cutting fluid consumption.

Characteristics

Property	Unit	Value	Test Method
Density @ 15°C	kg/L	0.860	ASTM D4052
Kinematic Viscosity at 40°C	cSt	10	ASTM D445
Flash Point, COC	°C	215	ASTM D92
Total Acid Number	mg KOH/g	0.3	ASTM D974
Saponification Number	mgKOH/g	152	ASTM D94
Iodine number	mg I/g	<1	DIN 53 241-1
Pour Point	°C	-20	ASTM D97
Four-Ball EP Test, Weld Load	kgf	240	ASTM D2783