

HIGHTEC WMC 2000 S

Water-miscible, fully synthetic cooling lubricant without mineral oils preferred for the grinding of cast iron and steels. It is also suitable for aluminium alloys and non-ferrous metals.

Description

HIGHTEC WMC 2000 S forms a stable, transparent solution when mixed with water. HIGHTEC WMC 2000 S displays a good starting ability, even with cold water.

HIGHTEC WMC 2000 S does not contain any secondary or so-called 'capped' alkanol amines. Based on current knowledge, the formation of N-Nitrosodiethanolamine (NDELA) is therefore virtually excluded. HIGHTEC WMC 2000 S is completely produced using synthetic components and is very readily biodegradable. Despite its bio-resistant character, HIGHTEC WMC 2000 S is particularly skin-friendly as it only contains low-dose proportions of biocides from the cosmetics industry. On the other hand, it is also free of boron, nitrite and silicate.

Furthermore, it offers very good corrosion protection properties, it is hard water stable and low-foaming, it keeps the machine clean without gumming, and it can also be emulsified again easily. To turn the argument on its head, a clean machine not only means less waste/disposal volume, but also a smaller bacterial/fungal and yeast contact surface and thus less problems relating to odour, a drop in pH value and corrosion as a consequence. All in all, a longer service life can often be achieved provided that continuous maintenance work and emulsion treatment are performed.

Application

- Grinding 3-5%
- Light drilling, turning, milling 3-5% and sawing

We recommend the use of mixing devices when preparing the solution as these guarantee an unvarying concentration and a good homogeneity in the solution.

Notices

Control: Handheld refractometer: Factor 1.4

Waste water treatment:

Used cooling lubricant solutions must be broken down before being diverted into the receiving waters or sewerage system. We will prepare treatment proposals relating to each respective waste water situation on request.

Typical characteristics

Property	Method	Unit	Value
Density at 20 °C	ASTM D1122	g/ml	1.1257
Kinematic viscosity KV 20	ASTM D-7042	mm ² /s	36
Color of the emulsion	visuell	-	translucent
Refractometer factor	-	-	1,4
pH of a 5% emulsion	DIN 51369	-	9,2
pH of a 10% emulsion	DIN 51369	-	9,3
Corrosion protection (chip test) grade 0	DIN 51360/2	%	3
pH of a 2% emulsion	-	-	9,0

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