

Product Information

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HYCUT[®] SE 12

is a high performance machining and spindle oil based on synthetic ester oils. The product outperforms by its versatility, high material compatibility and ageing resistance.

Benefits:

- Recommended for demanding machining operations such as deep drilling, thread tapping, honing and CBN-grinding
- A wide range of applications even on hard-to-machine materials (e.g. aluminium alloys)
- Outstanding lubricating performance results in low tool wear and increased machine productivity
- Clean parts and machine by excellent flushing action
- Compatible to HYCUT[®]-System
- Self emulsifying, easy to clean parts with water

Data of the Product (Concentrate):

Determination	Method	Unit	Value
Density, 68°F	ASTM D 1298	[kg/m ³]	885
Kin. viscosity, 104°F	ASTM D 445	[mm ² /s]	13
Flash point	ASTM D 92	[°C]	174
Copper Corrosion	ASTM D 130	Corrosion category (3hr at 100°C)	1a

Shelf Life/ Storage Conditions:

12 months under ambient storage conditions.

Industrial Health and Safety - Environmental Protection:

According to Hazardous Materials Identification System the product is labeled –
Health = 0; Fire = 1; Reactivity = 0

Disposal:

In compliance with the local waste regulations.

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use as a spindle oil.

Benefits:

- Free from boron, zinc and bactericide
- Suitable for high speed machine tool spindles
- High stability against oxidation and ageing
- Very good wear protection due to high lubricant power
- Outstanding corrosion protection
- Loss oil emulsifies into cutting fluids

Application Notes:

Before use, please take note of our product information on procedure for “Changeover of a spindle system to HYCUT[®] SE 12”.

Data of the Product (Concentrate):

Determination	Method	Unit	Value
Density, 68°F	ASTM D 1298	[kg/m ³]	885
Kin. viscosity at 40°C	ASTM D 445	[mm ² /s]	13
Flash point	ASTM D 92	[°C]	174
Pour point equal to or less than	ASTM D 97	[°C]	< -6
Neutralisation number (acid)	ASTM D 974	[mgKOH/g]	1.8
Copper Corrosion	ASTM D 130	Corrosion category (3hr at 100°C)	1a