

## ISOGRIND A 20

*Synthetic coolant for grinding operations on hard met*

### Characteristics:

ISOGRIND A 20 is a synthetic, water soluble coolant which has especially been developed for the application in the treatment of hard metals.

ISOGRIND A 20 is free from oil and nitrite. Due to special ingredients

ISOGRIND A 20 shows good rinsing effect thus providing good removal of abrasion particles.

ISOGRIND A 20 prevents the release of cobalt from the hard metal and provides excellent grinding properties.

ISOGRIND A 20 is simple to dilute with water in any ratio. The recommended use concentration is 2.5%. The minimum use concentration should not fall below 2%.

The efficient use of ISOGRIND A 20 depends on the hardness of the applied water. The best results are obtained with/at a water hardness in the range of 6-10°dH.

The concentration can be determined by means of refractometer. Regular control of the pH-value is recommended.

### Physical and chemical data:

#### Colour:

Concentrate			: light yellow
Solutions			: clear like water
Specific gravity/20°C	DIN 51 757	g/cm <sup>3</sup>	: 1.16
Viscosity	DIN 53 018	mm <sup>2</sup> /s	: 76
Pour point	DIN 51 597	°C	: - 20
pH-value of a 3% solution			:9.25
refractometer factor			:1.1
Corrosion protection(1:40)	DIN 51 360/2		: 0

Only valid in combination with EC-Safety-Data-Sheet.

**Warranty**

The information given here is considered to be correct and is offered for your consideration, investigation and verification. No warranties are expressed or implied since the use of our products is beyond our control. Statements concerning the use of PETROFER-products are not to be constructed as recommending the infringement of any patent.

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## ISOCUT FS

ISOCUT FS is a heavy-duty extreme pressure mineral based cutting oil with fatty substances and EP additives.

ISOCUT FS contains Sulphur, Chlorine and Phosphorus EP additives which can reduce the friction between the metal surfaces and strengthen the oil film in high pressure and high temperature conditions

Long tool life is achieved and surface finishes are optimized with ISOCUT FS.

ISOCUT FS has high level of EP additives and is used for most heavy duty machining such as, broaching, gear forming, gear tapping and drawing and deep drawing of ferrous metal and stainless steel.

### **Chemical & Physical data:**

Appearance	light brown	
Viscosity(40°C, cSt)	32	DIN 51 562
Pour point (°C)	-21	ISO 3016
Flash point(°C) ≥	210	ISO 2592

**Packing:** Steel Drum (208 Liter)

**Net Weight:** 180 Kg/Drum

Only valid in combination with EC-Safety-Data-Sheet.

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## ISOCUT FS-CH5

ISOCUT FS-CH5 is an extra heavy-duty extreme pressure mineral based cutting oil with fatty substances and EP additives.

ISOCUT FS-CH5 contains Sulphur, Chlorine and Phosphorus EP additives which can reduce the friction between the metal surfaces and strengthen the oil film in high pressure and high temperature conditions

Long tool life is achieved and surface finishes are optimized with ISOCUT FS-CH5.

ISOCUT FS-CH5 has an elevated level of EP additives and is used for most heavy duty machining such as, broaching, gear forming, gear tapping and drawing and deep drawing of ferrous metal and stainless steel.

### **Chemical & Physical data:**

Appearance	brown	
Viscosity(40°C , cSt)	33	DIN 51 562
Pour point ( °C )	- 21	ISO 3016
Flash point(°C) ≥	210	ISO 2592

**Packing:** Steel Drum (208 Liter)

**Net Weight:** 190 Kg/Drum

Only valid in combination with EC-Safety-Data-Sheet.

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