

Castrol Syntilo CR 4

Synthetic coolant

Description

Castrol Syntilo™ CR 4 is a synthetic coolant which has been developed for tungsten carbide grinding. Further it can be used for general grinding of ferrous metals. It forms a clear, stable solution in both hard and soft waters. Syntilo CR 4 exhibits good anti-corrosion properties coupled with a high resistance to bacterial attack.

Application

Syntilo CR 4 is developed for surface, cylindrical, double disk and centreless grinding especially of tungsten carbide.

Advantages

- Minimizes cobalt build-up which can lead to health hazards and tool/part failures
- Improves surface finish of components through reduced cobalt dissolution from the tungsten carbide binder matrix
- Low foaming in all water conditions to ensure continuous grinding performance
- Inhibits microbial growth to extend fluid life in central systems and individual sumps
- Rejects tramp oil to the surface of the fluid for easy removal
- Chlorine, phenol and nitrite free for environmental compliance
- Excellent corrosion protection even in hard water
- Settles chips quickly to prevent grinding wheel build-up and maintain a clean working environment
- Low residue tendency even at long sump life
- Boron, chlorine, phenol and nitrite free for environmental compliance

Typical Physical Characteristics

	Test Method	Unit	Value
Concentrate			
Appearance	Visual	Visual	Transparent, yellow
Density at 20°C	DIN 51757	kg/m ³	1.13
Mineral oil content	Calculated	Vol. %	0
Solution			
Appearance	Visual	Visual	Transparent
pH (5%)	DIN 51361		9,2
Factor refractometer			1,4

Recommended Concentrations

Grinding: 5-6%

Water range: 50–400 ppm CaCO₃

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