

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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Castrol Limited, Pipers Way, Swindon, Wiltshire SN3 1RE, UK
www.castrol.com/industrial