

Metal Working Fluid Technologies For Industry

ULTRA 990

General Purpose Synthetic Metalworking Coolant

DESCRIPTION

ULTRA 990 is a mineral oil, chlorine and nitrite free, synthetic metalworking coolant, specially designed for grinding and light to medium duty machining of **cast iron, ferrous alloys, aluminium alloys and copper alloys**.

APPLICATION

ULTRA 990 offers improved performance in applications where conventional synthetic coolants are often used, providing enhanced grinding performance, excellent cleanliness, and providing the machining performance to extend its use to most grinding and general machining operations, on cast iron and low to medium tensile steels, aluminium alloys and copper alloys.

ULTRA 990 is recommended for use in soft to hard water hardness conditions (50-400ppm hardness), is economical and low maintenance in use, and provides exceptional sump life. It is equally suitable for use in large centralised coolant systems and for small individual coolant sumps. The products versatility and multi metal compatibility makes it the outstanding choice for the general machining job shop.

BENEFITS

- Optimised lubricity additives and detergency, delivers enhanced component quality, reduced grinding wheel dressing, and improved wheel cleanliness.
- Multi metal compatibility offers opportunity for product consolidation.
- Excellent wetting properties, reduce “drag out” and product usage, and provide cleaner operating conditions and components.
- Exceptional product stability, long coolant life and exceptional machine cleanliness means lower process costs and machine downtime
- Low foaming characteristics in soft water conditions, eliminates the use of antifoams and reduces system maintenance costs.
- Excellent anti corrosion properties to protect machine tools and components.
- Mineral oil, chlorine and nitrite free, providing high health, safety and environmental compliance standards, and reduced waste treatment costs.

RECOMMENDED DILUTIONS

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Material	Cast Iron	Low/Medium Alloy Steels	Aluminium Alloys	Copper Alloys
Operation				
Grinding	3%	4%	4%	4%
Turning	4%	5%	5%	5%
Boring				
Drilling				
Milling				
Screw Cutting	4%	5%	5%	5%
Sawing	4%	5%	5%	5%
Tapping				

TYPICAL DATA (note: data is typical and does not constitute a specification)

Concentrate	Test method	Typical result
Appearance	Visual	Pale amber fluid
Density	DIN 51757, ASTM D1298	1.025
Emulsion		
Appearance	Visual	Translucent
pH 5%	DIN 51361, ASTM E70-97	9.0
Refractometer Factor		1.4

Storage:
container
prevent
frost, and

Keep
closed,
exposure to
prevent

water ingress. Store in cool, dry conditions, avoid direct sunlight. Indoor storage is preferable.

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