



Product Data

Syntilo 81 E

High Performance Synthetic Cutting Fluid

Description

Castrol Syntilo™ 81 E is a mineral oil and formaldehyde releasing agent free synthetic coolant. It contains an additive package that provides good corrosion protection to machine tools and parts. The fluid also provides excellent product stability which helps to lower the overall operational costs.

Syntilo 81 E is suitable for large central systems and single sump machines.

Application

Syntilo 81 E is especially designed as a general purpose grinding fluid for ferrous metals.

ü suggested core application ü possible application, please consult Castrol representative prior to use

	Cast Iron	Low-medium alloyed steel	High alloyed - stainless steel	Aluminium alloys	Magnesium alloys	Yellow metals
Grinding	ü ü	ü ü	ü			
Milling, Turning (general machining)	ü					
Drilling						
Reaming, Tapping						
Broaching						

Advantages

- Extended fluid life can help to reduce maintenance and downtime
- Low foam in recommended water conditions (see details below)
- Good anti-corrosion properties to protect machine tools and parts
- Rejects tramp oil to the surface of the fluid for easy removal
- Settles chips quickly to prevent grinding wheel build-up and maintain a clean working environment
- Formaldehyde releasing agent and nitrite free which help you to fulfil aspects of legislative requirements and waste treatment requirements where applicable

Typical Characteristics

	Test Method	Units	Value
Concentrate			
Appearance	Visual		Yellow clear liquid
Mineral oil content	Calculated	Wt %	0
Emulsion			
Appearance	Visual		Transparent
pH (5%)	DIN 51369 ASTM E70-97		9.2
Refractometer factor			1.5

Subject of usual manufacturing tolerance.

Recommended Concentrations

Grinding 3-5%

General machining 4-6%

Water range 20 - 600 ppm CaCO₃

Storage

To avoid product deterioration always keep the container/drum tightly sealed. Store the product in a cool, dry place away from direct sunlight. Prevent exposure to frost and avoid water ingress. For optimum product stability, it is preferable to store the product indoors between 5°C and 45 °C / 41°F and 113°F.

For more details, please refer to the product safety data sheet.

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