

Syntilo 77 EF

Synthetic Coolant

Description

Castrol Syntilo 77 EF is a mineral oil free, boron free synthetic coolant developed as a general purpose grinding and light to medium duty machining fluid for ferrous metals and aluminium alloys. It shows good machine part, paint and elastomer compatibility. It exhibits good anti-corrosion properties coupled with long system life.

Syntilo 77 EF can be used in both single sump machines as well as central systems.

Application

Castrol Syntilo 77 EF is developed for grinding, drilling and general machining on cast iron, alloy steel and aluminium alloys.

ü 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	ü		ü
Milling, Turning (general machining)	ü ü	ü ü	ü ü	ü ü		ü
Drilling	ü ü	ü ü	ü ü	ü ü		ü
Reaming, Tapping	ü ü	ü ü	ü	ü		ü
Broaching	ü ü	ü				ü

Advantages

- Excellent compatibility with machine tools – low sticky, less aggressive to paints and superior corrosion protection in comparison to standard synthetic cutting fluids
- Low foaming in all recommended water conditions
- Helps to extend fluid life in central systems and individual sumps
- Can reduced product usage due to low top requirements; excellent wetting properties reducing fluid drag out
- Multi-functional product for multi-metal operations helps in product consolidation
- Chlorine, boron, phenol and nitrite free for environmental compliance

Typical Characteristics

	Test Method	Unit	Value
Concentrate			
Appearance	Visual		Yellow
Mineral oil content	Calculated	Wt%	0
Emulsion			
Appearance	Visual		Transparent
pH (5%)	DIN 51369 ASTM E70-97		10
Refractometer Factor			1.7

Recommended Concentrations

Grinding : 3 – 5%
Machining : 4 – 8%
Water range : 20 - 500 ppm CaCO₃

Storage

To avoid product deterioration, keep the container/drum tightly sealed always. Prevent any frost and water ingress. Store it in a cool and dry place away from direct sunlight. It is preferable to store the product indoors always. For more details, please refer the product safety data sheet.

Syntilo 77 EF
20 May 2014
Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

Castrol Industrial, Technology Centre , Whitchurch Hill , Pangbourne , Reading , RG8 7QR , United Kingdom

www.castrol.com/industrial