



Product Data Sheet

Almaredge 51 FF

High performance soluble metalworking fluid

Description

Castrol Almaredge™ 51 FF is a high performance soluble metalworking fluid which is chlorine and formaldehyde releasing agent free. It contains a unique additive package that works in synergy to enhance machining performance and surface finish, provide excellent product stability, improve bio-resistance properties and lower the overall operations costs. Almaredge 51 FF is suitable for large central systems and single sump machines.

Application

Almaredge 51 FF is especially designed for grinding of steel and machining of low-medium alloyed steel, aluminium alloys and cast iron.

Advantages

- Formaldehyde releasing free to comply with health and safety regulations
- Chlorine and nitrite free to fulfill your local legislation, waste treatment and environmental requirements
- Resists fungal and bacterial attack to extend fluid life and reduce maintenance and machine downtime
- Low foam in recommended water conditions
- Excellent anti-corrosion properties to protect machine tools and parts
- Advanced lubricity compounds ensure improved tool life and part quality
- Excellent wetting properties reduce coolant drag out and deliver clean machine tools and components

Typical Physical Characteristics

	Test Method	Unit	Value
Concentrate			
Appearance	Visual		Yellow
Mineral oil content	Calculated	Wt%	50
Emulsion			
Appearance	Visual		Milky
pH (5%)	DIN 51369 ASTM E70-87		8.2
Refractometer Factor			1.0

Recommended Concentrations

Grinding : 4 - 6 %
 General Machining : 6 - 8 %.
 Drilling : 7 - 10 %.
 Reaming & Tapping : 8 - 13 %.
 Broaching : 8 - 13 %

Water Range : 50 - 400 ppm.

Additional Information

	Boron	Formaldehyde releasing agent	EP-Ester	Amines	Chlorine
Additives	✓	-	-	✓	-

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.

Almaredge 51 FF
 01 Dec 2017
 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 referred to for appropriate information regarding storage, safe handling, and disposal of the product. Castrol India Limited shall not be responsible or liable for any damage or injury resulting from abnormal use of the product, from any failure to adhere to recommendations, from any failure to adhere to information regarding storage, safe handling, and disposal of the product or from hazards inherent in the nature of the product. 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 India Ltd Technopolis Knowledge Park PO Box. 19411, 1st Floor Mahakali Caves Road Mumbai - 400 093 India
 Toll Free: 1800 222100 / 1800 2098100, 022-27839800 Email: customercare.India@castrol.com
www.castrol.com/industrial