



Product Data

Castrol Alusol ABF 47

High performance soluble metalworking fluid

Description

Castrol Alusol™ ABF 47 is a high performance soluble metalworking fluid formulated without boron, alkanolamines and formaldehyde releasing agents. It contains an additive package that helps to enhance machining performance and surface finish, provide good product stability, helps to improve system life and can lower the overall operations costs.

Alusol ABF 47 is suitable for large central systems and single sump machines.

Application

Alusol ABF 47 is especially designed for machining of aluminium alloys. It can also be used for machining of lowmedium alloyed steel.

√/√suggested core application √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		√	√	√/√		√
Milling, Turning (general machining)		√/√	√	√/√		√
Drilling		√/√	√	√/√		√
Reaming, Tapping		√	√	√/√		√
Broaching		√	√	√/√		√

Advantages

- Formulated without formaldehyde releasing agent and boron which help you to fulfil aspects of legislative requirements and waste treatment requirements that specify that these chemicals are excluded
- Extended fluid life can help reduce maintenance and machine downtime
- Low foam in recommended water conditions (see details below)
- Lubrication package designed to try to help to enhance tool life and improve surface finish on aluminium machining
- Multi-functional product for multi-metal operations can results in product consolidation

Typical Characteristics

	Test Method	Unit	Value
Concentrate			
Appearance	Visual		Brown
Mineral oil content	Calculated	Wt%	41
Emulsion			
Appearance	Visual		Milky
pH (5%)	DIN 51369 ASTM E70-97		9.3
Refractometer Factor			0.9

Subject to usual manufacturing tolerances.

Recommended Concentrations

Grinding	7 - 8%
General Machining	7 - 10%
Drilling	8 - 10%
Reaming and Tapping	9 - 12%
Broaching	10 - 12%

Water range 100 – 700 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 the product safety data sheet.

Castrol Alusol ABF 47

11 Dec 2024

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. 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

<http://msdspds.castrol.com>