

TRI-Logic® ATi

Maximum life cutting fluid for aluminium and titanium alloys

Applications

ROCOL® TRI-Logic ATi is a premium quality, mineral-oil-free, boron-free, EP water-miscible cutting fluid specially formulated for optimum machining performance on aluminium and titanium alloys. Its advanced synthetic ester base and alternative amines deliver outstanding lubricity, excellent surface finish and extended tool life.

Designed for maximum stability and sump life, TRI-Logic ATi is suitable for a wide range of machining operations and materials while providing exceptional operator acceptability through its mild odour and clean-running formulation.

The combination of high lubricity and extreme pressure performance helps prevent built-up edge, reduce heat generation and minimise tool wear—ultimately delivering improved productivity and reduced overall operating costs.

Features and Benefits

- Free from mineral oil, nitrites, chlorine, boron and formaldehyde donors
- Optimised for machining aluminium and titanium alloys
- Excellent lubricity helps prevent built-up edge and extends tool life
- Promotes excellent surface finish across a range of operations
- Stable, long-life synthetic formulation
- Good operator acceptability with a mild odour

Usage Guidance

- TRI-Logic ATi should be used at dilution ratios up to 15:1, depending on alloy type, operation severity and water hardness.
- To ensure dilution accuracy, it is preferable to use a ROCOL Automatic Fluid Mixer.
- For manual mixing, always add concentrate to water, stirring continuously.
- For optimum performance, TRI-Logic ATi should only be used with clean water of hardness below 300 ppm. Performance cannot be guaranteed if mixed with water exceeding this level, particularly where high carbonate hardness is present.
- Optimum fluid life is obtained through correct dilution control, machine cleaning and regular maintenance.

Storage Guidance

TRI-Logic ATi should be stored in a cool, well-ventilated area, between 5°C and 30°C in the original container. If stored in accordance with these guidelines, the shelf life is 1 year from date of manufacture.

Approvals and Certifications

Rolls Royce Non-Metallic Database - Class A

Pack Sizes

Part Code	Pack Size
20L	52172
200L	52171
1000L	52170

T +44 (0) 113 232 2600
E customer.service@rocol.com

www.rocol.com

ROCOL A Division of ITW Limited
ROCOL House, Swillington, Leeds, LS26 8BS, UK
VAT Number: 742053167
Registered Company No: 00559693
Registered Office: Saxon House, 2-4 Victoria Street, Windsor, England, SL4 1EN



TRI-Logic® ATi

Maximum life cutting fluid for aluminium and titanium alloys

Parameter	Test Method	Value
Appearance - Concentrate	N/A	Clear, amber liquid
Appearance - Emulsion	N/A	Translucent, white liquid
Odour	N/A	Mild
pH	N/A	9.0 at 25:1 dilution
Density at 20 °C	ASTM D4052	0.99 g/cm ³

Dilution Ratio	5:1	10:1	15:1	20:1	25:1	30:1
Refractometer Reading	16.2	8.5	5.7	4.5	3.3	2.7

Safety Datasheets

These are available at <https://www.rocol.com/datasheets>. For further assistance, please contact us via the ROCOL website or using the details below.

Note

The information in this Technical Datasheet is informed by our experience and feedback from industry. There are many variables outside our control or knowledge which affect the use and performance of our products, for which reason it is given without responsibility. Values quoted are typical and do not constitute a specification.

If you'd like to discuss the suitability of any ROCOL solution for your system, please get in touch.

T +44 (0) 113 232 2600
E customer.service@rocol.com

www.rocol.com



ROCOL A Division of ITW Limited
 ROCOL House, Swillington, Leeds, LS26 8BS, UK
 VAT Number: 742053167
 Registered Company No: 00559693
 Registered Office: Saxon House, 2-4 Victoria Street, Windsor, England, SL4 1EN

