

## TRI-Logic® ALX

Maximum life, extreme pressure cutting fluid for aluminium and its alloys

### Product Overview

ROCOL® TRI-Logic ALX is a premium quality, EP, water mix cutting fluid designed to be used as part of the ROCOL TRI-Logic system.

TRI-Logic ALX is formulated from a unique blend of specially selected additives to maximise in-sump life.

TRI-Logic ALX is designed for heavy duty machining operations on a wide variety of metals such as steel, stainless steel, aluminium and its alloys.

The combination of lubricity and extreme pressure additives in TRI-Logic ALX prevents built-up edge, extend tool life and promote excellent surface finish.

The ROCOL TRI-Logic system is a revolutionary approach to maximising cutting fluid sump life, minimising fluid disposal and reducing costs. For optimum performance the TRI-Logic cutting fluids should be used with TRI-Logic VG68 slideway oil and, where applicable, TRI-Logic RTD tapping fluid.

### Features and Benefits

- TRI-Logic ALX has excellent inherent stability providing a long and predictable sump life.
- Provides excellent residual corrosion protection.
- Maximum cutting performance on steel, stainless, aluminium and its alloys.
- Prevents built-up edge and extends tool life particularly on roll tapping.
- Promotes excellent surface finish.
- Suitable for use in hard and soft water areas.
- The performance of TRI-Logic ALX is optimised for use in the TRI-Logic system.

### Directions for Storage and Use

- TRI-Logic ALX should be used between 10:1 and 25:1 depending on the material being machined, the severity of operation and the water hardness.
- To ensure dilution accuracy, it is preferable to use a ROCOL Automatic Fluid Mixer. For manual mixing, add the concentrate to the water at the recommended dilution ratio, stirring continuously.
- It is advisable to use ROCOL ULTRAGUARD® SC System Cleaner at fluid changeovers. Optimum fluid life is obtained by adequate initial machine cleaning, correct dilution control and regular maintenance of the fluid, particularly prior to weekends and shutdown periods.
- For optimum performance the TRI-Logic system should be fully utilized.
- TRI-Logic ALX should be stored in a cool, well ventilated area, between +5°C and +30°C, in the original container.
- If stored in accordance with the above guidelines, shelf life is 1 year from date of manufacture.

### Typical Applications

- Heavy duty machining operations on a wide variety of metals such as steel, stainless steel, aluminium and its alloys.

### Pack Sizes

Pack Size	Part Code
200L	51959

Performance you can trust

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Property	Test Method	Result
<b>Appearance:</b>		
<b>Concentrate</b>	<b>N/A</b>	<b>Clear amber liquid</b>
<b>Mixed with water</b>	<b>N/A</b>	<b>White emulsion</b>
<b>Odour</b>	<b>N/A</b>	<b>Mild</b>
<b>pH</b>	<b>N/A</b>	<b>8.8 at 25:1 dilution</b>
<b>Density at 20°C (g/cm<sup>3</sup>)</b>	<b>N/A</b>	<b>0.98</b>

### Refractometer Calibration:

<b>Dilution Ratio</b>	<b>5:1</b>	<b>10:1</b>	<b>15:1</b>	<b>20:1</b>	<b>25:1</b>	<b>30:1</b>	<b>35:1</b>
<b>Refractometer Reading</b>	<b>16.3</b>	<b>9.0</b>	<b>6.2</b>	<b>4.7</b>	<b>3.9</b>	<b>3.0</b>	<b>2.6</b>

Values quoted above are typical and do not constitute a specification.

### Safety Data Sheets

Safety data sheets are available for download from our website [www.rocol.com](http://www.rocol.com) or may be obtained from your usual ROCOL contact.

The information in this publication is based on our experience and reports from customers. There are many factors outside our control or knowledge which affect the use and performance of our products, for which reason it is given without responsibility.

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