

TRI-Logic® HPX

Maximum life, chlorine free, EP cutting fluid for aluminium and its alloys

Applications

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

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

TRI-Logic HPX 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 HPX 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.

Features and Benefits

- Excellent inherent stability, providing a long and predictable sump life.
- 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.
- Chlorine free and is suitable for use in hard and soft water areas.
- Optimised for use in the TRI-Logic system.
- Inherently resistant to degradation

Storage Guidance

TRI-Logic HPX 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.

Usage Guidance

- TRI-Logic HPX should be used between 15:1 and 30:1 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 the appropriate ROCOL ULTRAGUARD® Machine Tool Care product 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 & shutdown periods.
- For optimum performance the TRI-Logic system should be fully utilized.
- TRI-Logic HPX 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.

Approvals and Certifications

Rolls Royce Non-Metallic Database - Class A

Pack Sizes

Part Code	Pack Size
51979	200 L

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Parameter	Test Method	Value
Appearance	N/A	Clear amber liquid forming a milky white emulsion
Odour	N/A	Mild
pH @ 20:1	N/A	8.6
Density at 20°C	ASTM D4052	0.97 gcm ⁻³

Dilution Ratio	5:1	10:1	15:1	20:1	25:1	30:1	35:1
Refractometer Reading	14.2	8.5	5.5	4.2	3.5	3.1	2.4

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.

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