

Technical Data Sheet

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Safety Data Sheets, product photos, and other information can be obtained by visiting www.chemtools.com.au



Tap-N-Cool Semi-Synthetic Soluble Cutting Fluid

PART NUMBER	AVAILABLE SIZE*
CT-SYFO-1L	1 Litre
CT-SYFO-5L	5 Litres
CT-SYFO-20L	20 Litres

*Available colours and/or sizes may change without notice.

DESCRIPTION

Chemtools® Tap-N-Cool Semi-Synthetic Soluble Cutting Fluid is a proven, new generation heavy duty oil-based metalworking coolant which offers enhanced performance and high lubrication and corrosion inhibition. It contains extreme pressure additives and a highly effective biocide package to ensure the in-use emulsion resists forming bacteria and fungus, thereby reducing spoilage and odours.

SYFO is free flowing for rapid dissipation of heat, and offers outstanding performance in difficult machinery and grinding operations involving hard-to-work metals such as stainless steel, tool steels, and high nickel alloys. It is suitable for a wide range of non-hazardous operations where sump life can be improved in comparison to more conventional soluble oils.

Semi-Synthetic Soluble Cutting Fluid is formulated to maximise tool life, maintain a rust-free environment for tools and finished parts, and provide an excellent surface finish on both ferrous and non-ferrous metals.

RECOMMENDED OPERATIONS					
Tapping	Broaching/Gear Hobbing	Threading	Deep Hole/Gun Drilling	Sawing	Milling
Reaming	Turning/Boring	Drilling	Screw Machining	Stamping	Grinding

DIRECTIONS

Mix concentrate with tap water before use and avoid very cold water. Refer to Dilution Ratios chart below for different metal types and operations. Continue mixing until a stable, milky emulsion is formed.

Note: Always add the concentrate to water with agitation, to avoid gelling or splitting of the emulsion. Use a dosing unit or mixer to ensure constant concentration for optimum fluid performance.

DILUTION RATIOS

OPERATION	FERROUS & NON-FERROUS METALS	ALLOYS
Tapping	5 – 7% Water	5 – 10% Water
Broaching/Gear Hobbing		
Threading		
Deep Hole/Gun Drilling		
Sawing	5 – 7% Water	Not Recommended
Milling		
Reaming		
Turning/Boring		
Drilling		
Screw Machining		
Stamping	5 – 10% Water	
Grinding	3 – 5% Water	

TECHNICAL DATA

Appearance	Brown liquid (5% Emulsion: Milky white)
Density	0.91 (@ 20°C)
R1 Factor	1.42
Flash Point	> 200°C

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FIRST AID & SAFETY PRECAUTIONS

Always refer to Safety Data Sheet/s before use. Use proper Personal Protection Equipment. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Avoid breathing fumes. This product may produce adverse health conditions, ranging from minor skin irritation to serious systemic effects. It should not be used, stored, or transported until the handling precautions and recommendations as stated in the Safety Data Sheet/s for this product have been fully understood by all persons who will work with the material.

STORAGE & TRANSPORT

Refer to Safety Data Sheet/s for recommendations. As a general precaution, keep containers tightly closed, protect from sunlight, and do not expose to temperatures exceeding 50°C. Store in a cool, dry place at room temperature (5 – 40°C). Do not return any unused material to its original container. Containers should be secured and stored upright during transit.

DISCLAIMER

Every effort has been made to ensure the information provided in this document is accurate at the date of publication. Chemtools® Pty Ltd expressly recommends that the user make his/her own assessment to determine the suitability of the product for its intended purpose prior to application. Chemtools® Pty Ltd shall not be responsible for loss, damage, or injury, resulting from the reliance upon, or failure to adhere to, any recommendations or information contained herein; nor from abnormal use of the material; nor from any hazard inherent in the nature of the material.