

PRODUCT INFORMATION SHEET

XDP1000

Ultimate Metal Working Fluids

MADE IN
AUSTRALIA



Bio Stable Water Soluble Lubricoolant

Metalium XDP1000 has been developed as an economical coolant that can be used on a wide range of ferrous and nonferrous metals including carbon steels, stainless steels, cast iron, white metals and aluminum. A carefully formulated chemical package has been added to the mineral based oil to increase the life of the coolant in the sump. Extreme Pressure additives have been included to increase tool life in demanding machining operations and produce excellent surface finishes. Metalium XDP1000 can also be used on a wide range of machines including,

Bandsaw, Coldsaw, Drilling, Milling, Lathes, Tapping, Broaching and Grinding. When added to water, it forms a stable milky solution providing excellent emulsion. It has been tested in almost all hard waters and has proven exceptionally stable. It has excellent Anti-Bacterial, Anti-Fungal, and Reduced Foam Properties. Metalium XDP1000 is part of our range of Ultimate Metal Working Fluids with market leading performance in all machining operations.

A Lubricoolant that ticks all the boxes

Can be used on ferrous metals	✓	Corrosion prevention – Finished product has longer rust protection	✓
Can be used on non ferrous metals	✓	Antibacterial – Easier on your hands	✓
Free of chlorine and nitrite – safer on the operator & environment	✓	Antifungal – Reduces the risk of having an unpleasant smell	✓
Free of silicone – Better for painting the material	✓	Low foaming	✓
Can be used in hard water	✓	Extreme pressure – Extended tool life and improved surface finish	✓

Typical Physical Properties:

Appearance: Amber fluid
Viscosity: 39.7 cSt@40°C
Emulsion Type: Milky White when mixed added to water
Foaming tendency: Low
pH Level: 8-9



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Recommended Mix Ratio:

Always add Oil to Water. Failure to do this may result in an unsatisfactory emulsion.

20:1 (5%) for Bandsaws, Coldsaws, Milling Machines and Lathes - on mild machining steels and stainless.

15:1 (6.3%) for Bandsaws, Coldsaws, Milling Machines and Lathes - on harder machining steels.

10:1 (10%) for harsher applications such as Drilling, Tapping and Broaching.

35:1 (2.8%) For grinding applications. A leaner solution could be used, but the corrosion protection will be reduced.

Addition of fresh solution should be calculated to compensate for evaporation or dilution. The concentration level can be measured using a hand refractometer.

System Hygiene & Cleaning:

It is important to ensure care is taken to maintain hygiene in the Lubricoolant system. To avoid premature bacterial degradation and fungal growth, it is essential to remove tramp oils from coolant sumps on a regular basis. Swarf levels should be kept to a minimum and can be assisted by Magnetic Swarf removers or a system filtration. Also the surrounding workplace should be kept clear of food & drink waste to prevent accidental deposit into the system. To clean the Lubricoolant System, add 2-5% Metalium System Cleaner to the solution and allow circulating for 8 hours. Thoroughly remove and clean out all the old solution and flush with water, wiping clean all surfaces and hidden areas that bacteria and fungus could be lurking. Only then should the new solution be added.

Storage and Shelf Life:

Metalium XDP1000 is recommended to be stored indoors in dry conditions between 5°C and 50°C. Keep away from sources of heat and naked flames. When stored in original sealed containers, shelf life is 2 years.

Safety in Handling and Use:

Metalium XDP1000 is a non-hazardous substance. Please refer to the relevant Material Safety Data Sheets. (QR code below) Special care and attention should be taken to prevent injury or damage through accidental fires caused by ignition of vapours and/or mists in air. It must be clearly stated that most hydrocarbon substances, including synthetic vegetable based esters, can be made to combust under unfavourable conditions.

Disposal:

All Metal Working Fluids need to be treated with care so as not to spoil our environment. When required, disposal should be handled through an approved waste contractor or disposed of in an approved way.



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MSDS Sheet**

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