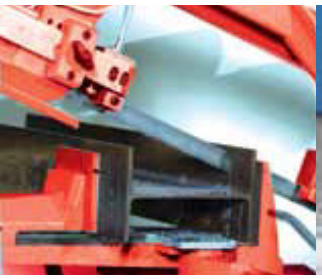
PRODUCT INFORMATION SHEET

XDP 1800

Ultimate Metal Working Fluids

MADE IN AUSTRALIA



Bio Stable Water Soluble Lubricoolant

XDP1800 has been formulated to increase tool life and provide extended sump life. It can be used on a wide range of ferrous and nonferrous metals including carbon steels, stainless steels, cast iron, white metals and aluminum. With the highly refined oil, a carefully formulated chemical package has been added to increase the life of the coolant in the sump. Metalium XDP1800, while being able to be used on a wide range of metals, can 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 translucent solution providing excellent microemulsion. It has been tested in almost all hard waters and has proved exceptional stability. It has excellent Anti-Bacterial and Anti-fungal, and Low Foam Properties. Metalium XDP 1800 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, nitrite, phenols and sulphur. Safer on the operator and 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	✔		

Typical Physical Properties:

Appearance:	Clear Brown Liquid
Viscosity:	39.7 cSt@40°C
Emulsion Type:	Stable Translucent 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 Bandsaw, Coldsaw, Milling, Lathes, on mild machining steels.
15:1 (7.5%) for Bandsaw, Coldsaw, Milling, Lathes, on harder machining steels and stainless.
10:1 (10%) for harsher applications such as Drilling, Tapping 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. The refractive index for XDP 1800 is 2.63.

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 work place should be kept clear of food & drink waste to prevent accidental deposit in 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 that could be lurking. Only then should the new solution be added.

Storage and Shelf Life:

Metalium XDP 1800 is recommended to be stored indoor in dry conditions between 5° and 50°. Keep away from sources of heat and naked flames. When stored in original sealed containers, shelf life is 2 years.

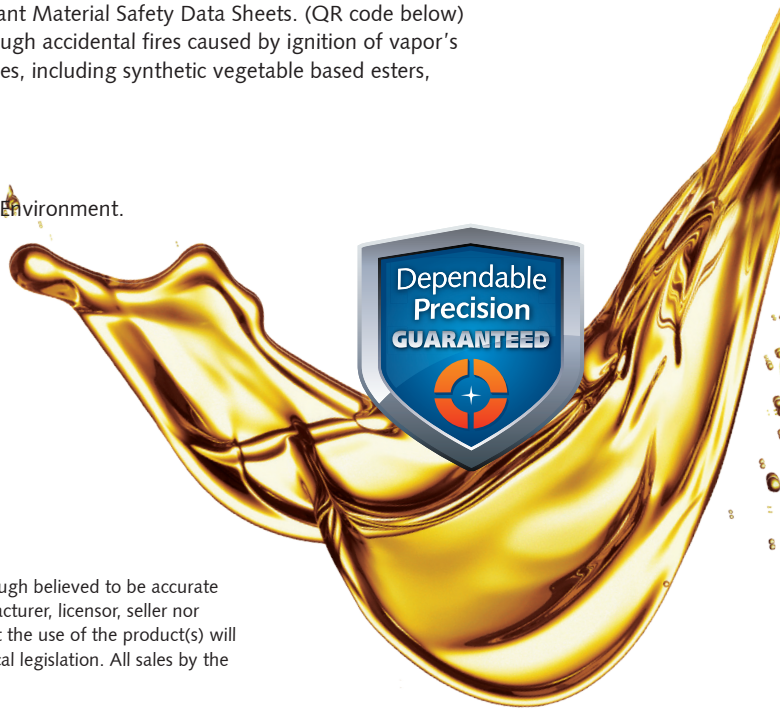
Safety in Handling and Use:

Metalium XDP 1800 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 vapor's 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 unfavorable 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.

Scan to download MSDS Sheet



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