Veedol

POWERING PERFORMANCE



VEEDOL **SOLUCUT MULTI METAL PRO**

SEMI SYNTHETIC HIGH OIL METAL WORKING FLUID

BUILT IN LUBRICITY ENHANCER

Performance Features & Benefits

Triazine free Biocides
Free from hazardous chemical, reduced risk of operators health & safety.

Chlorine Sulphur and Phosphorus free
Make it environmentally friendly, low disposal cost.

Excellent Emulsion Stability
Good compatibility with waters of 50 ppm – 500 ppm (Calcium carbonate) hardness.

Designed for Low foaming
Advanced defoamer additive make it ideal for lower foaming tendency even in soft water.

Ideal Choice for
High-and low-pressure CNC systems.

Built-in Lubricity Technology
Lubricity molecules create a thin robust film preventing direct metal-to-metal contact providing boundary lubrication.

Long-life MWF
Multi metal machining with good corrosion protection for components and machine tools.

Materials

- **All aluminium alloys, including aerospace**
- **Stainless steels, titanium alloys**
- **Inconel and other heat resistant super alloys**
- **Multi Metal Pro is excellent choice for automotive and aerospace alloys and yellow metals**
- **Oil-resistant plastics and other non-ferrous materials**

Please follow equipment manufacturer's recommendations for performance level and viscosity grade.

Typical Recommended Concentrations

General machining	5 - 6%
Thread cutting and forming	6 - 8%
Deep hole drilling and boring	8 - 10%
Reaming	8 - 10%
Grinding	3 - 4 %

The concentrations vary depending on the type of machining operations.

Product Mixing

TWOCIL advises the use of automated mixing systems. If mixing manually, always add the concentrate to the water with maximum agitation. If water is added to the concentrate, the emulsions may prove unstable. Avoid mixing with very cold concentrate or water.

Product Management

The working concentrations should be carefully controlled and monitored daily as higher & lower working concentrations will have performance, health and safety implications.



Typical Properties

Appearance	Amber Liquid
Oil Content	Approx 56%
Stability (0°C/Ambient/50°C)	Passes
Emulsion Type @ 5% in tap water	Milky
Cast Iron Corrosion IP 287, 3.0 % in 200 ppm	Passes
pH @ 5% in deionized water	9.1
Defoam in 50 ppm water	Nil in 60 seconds
Refractometer Factor	1.0

The above typical properties are those obtained with normal production tolerance and do not constitute as specification. Variations that do not affect product performance are to be expected during normal manufacturing processes and at different blending locations. The information contained herein is subject to change without notice.

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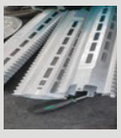
Veedol Solucut Multi Metal Pro – Key Differentiators

Market General Soluble Cutting Oil	Veedol Solucut Multi Metal Pro

MULTI METAL CORROSION PROTECTION



Staining observed on Aluminium due to weaker additive composition



High performance additives prevent staining on Aluminium

FOAMING



Heavy Foaming



No Foaming

Advanced Defoamer make it ideal for low or no foaming

FLUID MAINTENANCE

Poor or incorrect emulsion preparation may lead to instability and could considerably shorten the life of the emulsion. Prior to making any fresh emulsion, it is highly recommended to use compatible system cleaner for purging the machine tool coolant system.

STORAGE

All packages should be stored under cover. It should not be exposed to direct sunlight, intense cold and extreme temperature fluctuations. Where outside storage is unavoidable, drums should be laid horizontally or properly covered to avoid the possible ingress of water and damage to drum markings.

HEALTH, SAFETY AND ENVIRONMENT

The information on this product is available in the Material Safety Data Sheet (MSDS) as a guide to the precautions and safe handling of this product and its disposal. For further information, we recommend you review the MSDS. If handled correctly, there are no special precautions suggested.

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