



Product Description:

Veedol Solucut Multi Metal Pro is a high oil containing long-life metalworking fluid. It is suitable for multi-metal machining while providing good corrosion protection for components and machine tools.

It forms a stable, milky emulsion with water, ensuring consistent cooling and lubrication. Built-in lubricity technology enhances high performance in arduous operations, ensuring efficient cutting and reducing tool wear.

Veedol Solucut Multi Metal Pro is an excellent choice for machining automotive and aerospace alloys, as well as yellow metals.

Features/Benefits:

- **Versatile metal compatibility** enables use with a variety of metals, including non-ferrous materials.
- **High oil containing semi-synthetic formulation** provides enhanced performance and longer coolant life compared to conventional soluble oils, reduces maintenance and operational costs.
- **Triazine free biocides** resist microbial degradation of emulsion, ensuring long-term stability and effectiveness of cutting fluid. Prevents rancidity and unpleasant odors, maintaining a healthier working environment.
- **Good compatibility with water** ranging from 50-500ppm (Calcium Carbonate) hardness.

Application:

- Ideal for high-precision machining operations in automotive and aerospace industry.
- Compatible with Aluminium and alloys.
- Machining of Stainless steel and titanium alloy.
- Inconel and other heat resistant super alloys.
- Oil-resistant plastics and other non-ferrous materials.
- Suitable for high and low-pressure CNC systems.

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

Recommended concentration:

- | | |
|---------------------------------|---------|
| • General Machining | 5 - 6% |
| • Thread cutting and forming | 6 – 8% |
| • Deep hole drilling and boring | 8 - 10% |
| • Reaming | 8 - 10% |
| • Grinding | 3 – 4 % |



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 a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice.

PRODUCT MANAGEMENT AND HANDLING OF METALWORKING FLUIDS:

PRODUCT MIXING

Always add the concentrate to the water. If water is added to the concentrate, the emulsions may prove unstable. TWOCIL advises the use of automated mixing systems. If mixing is done manually, ensure vigorous agitation. Avoid mixing very cold concentrate or water.

PRODUCT MANAGEMENT

The working fluid concentration should be carefully controlled and monitored daily as higher and lower working concentrations have health and safety implications. Check and record emulsion strength regularly using a calibrated refractometer. Machines should be cleaned regularly. Fluid and particulate contaminants should be kept to a minimum. This is important, especially in terms of bacterial control.

STORAGE

Store inside the warehouse, ideally between 10°C and 30°C. Shelf life is 12 months from date of manufacture. 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 AND SAFETY

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.