



## Matrix Sol Plus 01

### General machining metalworking fluid

#### Description

Sol Plus 01 is a universal, high performance water soluble cutting fluid, high stability and excellent performance in adverse environments, humidity and pollution. Sol Plus 01 will form stable milky emulsions, low foaming, with EP and lubricating and anticorrosive properties. Sol Plus 01 contains additives that ensure a superior performance compared with conventional emulsions, when used in the recommended concentration.

#### Applications

Sol Plus 01 provides good lubrication and coolant properties thanks to its micro fine nature of the emulsion, improving penetration of the fluid into critical tool/chip interface, resulting in superior finish on components and extended tool life.

#### Typical performance data - Neat

Appearance	Amber liquid
Specific gravity @ 20 °C, gr/cm <sup>3</sup>	0,96
Pour point, °C	-5

#### Typical performance data - 5% emulsion (in tap water 150 ppm)

Appearance	Milky translucent
pH	9,2
Corrosion test	Nil
Aluminium corrosion	Nil
Copper corrosion	Nil

#### Mixing

Sol Plus 01 is easy to mix. Simply pour the concentrate into water at the appropriate solution and mix. Recommended for water from 50 to 500 ppm and chloride below 0,1 gr/l. Sol Plus 01 is recommended to use between 6 to 10% depending on the application.

Dilutions can be easily checked by Refractometer;  
% Concentration = Refractometer Reading x 1

Sol Plus 01 is recommended for aluminium machining, including threading and MAPAL reaming operations. It is also suitable for steels and machining with non-ferrous metals. Suitable for all type of CNC, transfer and metalworking machines.

#### Benefits

- Excellent lubricant and EP characteristics
- Excellent service life
- Environmentally acceptable
- Does not contain nitrite, boron, amines or chlorine
- Does not form sticky deposits on surfaces
- Suitable for systems with tendency to biological pollution
- Multi metal

All performance data on this Technical Data Sheet are indicative only and can vary during production

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