



## Matrix Sol Plus 105 SM

### General machining soluble coolant

#### Description

Matrix Sol Plus 105 SM is a biostatic metalworking fluid which forms milky transparent emulsion when mixed with water. The levels of additives incorporated ensure that when the product is used at the recommended concentration, a superior performance compared with conventional emulsions will be achieved in terms of finish, tool and sump life and rust control.

Sol Plus 105 SM is safe for operators and protects the machine from rust.

#### Applications

Matrix Sol Plus 105 SM is suitable for a wide variety of machining operations on all grades of steel, aluminium and yellow metals. The product is suitable for centralized systems and independent machines.

#### Benefits

- High anticorrosive properties
- Good cooling
- Excellent service life
- Environmentally acceptable
- Multi metals
- Does not form sticky deposits on machine surface
- Economical in use

#### Typical performance data - neat product

Appearance	Clear amber liquid
Specific gravity @ 20 °C, gr/cm <sup>3</sup>	0,99
Sodium nitrite	Free

#### Typical Performance Data – 5% emulsion (in tap water 150 ppm)

Appearance	Amber translucent
pH	9,4
Corrosion test IP-287	No corrosion
Copper corrosion	Nil
Aluminium corrosion	Nil

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

Matrix Specialty Lubricants BV - [info@lubes-portal.com](mailto:info@lubes-portal.com) – [www.lubes-portal.com](http://www.lubes-portal.com)



## **Mixing**

Matrix Sol Plus 105 SM is easy to mix. Simply pour the concentrate into water at the appropriate solution and mix. Hardness of water should be between 300 ppm and 800 ppm and chloride content not superior to 0,21 gr/lit. Matrix Sol Plus 105 SM is recommended to use between 4 to 6% depending on severity of application. For severe machining from 6 to 8%.

Dilutions can be easily checked by Refractometer:

$\% \text{ Concentration} = \text{Refractometer reading} \times 1,2$

## **Storage**

Soluble oils are susceptible to frost damage. Store containers indoors to protect extremes of temperature.