

# VALONA MS 7009



*Metalworking*

**TOTAL**

Chlorine-free neat cutting oil for heavy duty machinings.

## UTILISATIONS

- **VALONA MS 7009** is a very low viscosity **chlorine-free neat cutting oil dedicated to** both ferrous and non-ferrous metals.
- **VALONA MS 7009** is widely used on cutting operations on hard and very hard steels (bearing steels), on special, stainless and refractory steels (NIMONIC and VASPALLOY) and on titanium alloys (aviation and medical applications). It can also be used on low carbon steels and copper alloys.  
Machinings lubricated : deep drilling, turning, screwcutting, milling, threading, tapping, sawing.

## ADVANTAGES

- **Very good antiwear and extreme pressure performances:**  
Increases the tool lifetime,  
Very good surface finish,  
(it contributes towards reducing production costs).
- Very good behaviour **on a large scale of cutting parameters.**
- **Low treatment cost** (swarf, diatomated earth, chip treatment).
- **Low mist oil formation** which improves the work conditions.

TYPICAL CHARACTERISTICS	METHODS	UNITS	VALONA MS 7009
Appearance	-	-	Clear liquid
Colour	ISO 2049	-	3 maxi
Density at 15°C	ISO 3675	kg/m <sup>3</sup>	865
Kinematic viscosity at 40°C	ISO 3104	mm <sup>2</sup> /s	9.9
Copper corrosion	ISO 2160	-	1b maxi
Open cup flash point	ISO 2592	°C	164
Aniline point	ISO 2977	°C	> 90

Above characteristics are mean values given as an information.

**TOTAL LUBRIFIANTS**  
**Industrie & Spécialités**  
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VALONA MS 7009  
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This lubricant used as recommended and for the application for which it has been designed does not present any particular risk.  
A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial adviser or down loaded from [www.quick-fds.com](http://www.quick-fds.com).