

## Technical description

# AZMOL Delta Cuttana SM

**TS U 20.5-39125160-024:2018**

### Description:

It is a semi synthetic modern water dispersant cooling liquid on the basis of synthetic esters, high performance package **Delta Fluid Technology**, anti-corrosion, and antiwear additives. It contains a small quantity of mineral oil. It is a 1:20 concentrate (this is an approximate ratio - for more precise recommendations on the concentration of the working solution, see below).

### Application:

It is designed for wide range of metalworking on ferrous, all kinds of cast iron, aluminum and other non-ferrous metals: blade processing (turning, milling), abrasive processing (grinding).

### Preparation:

The working solution is prepared easily, concentrate is added into water or vice versa and the ready solution is mixed. The water heating is not required.

#### The recommended concentration of coolant:

- for grinding operations is 3-5%;
- for basic machining operations 4-6%;
- for heavy machining operations 5-10%.

Express control of the concentration of the working solution on the Brix refractometer:

Coolant concentration in% = Brix refractometer x 1.45.

Laboratory control of concentration is also possible. To obtain the method, please contact our technical service.

### Advantages:

It does not contain chlorine compounds, nitrites, formaldehyde, phenols, heavy metals. It has a neutral smell. Possesses high washing, penetrating and cooling ability. As a result, clean parts, tools, equipment. Good lubricating properties ensure the required tool durability and the quality of the treated surfaces. It does not cause the destruction of paint coatings, rubber and plastic parts of equipment. It has excellent corrosion-protective properties, which ensures reliable protection of equipment and machined parts. High emulsion stability. The working solution separates well the foreign oils entering the coolant, which allows using skimmers to collect oil from the surface of the working solution. Low tendency to foaming. Does not smoke and does not ignite when working.

### Typical properties:

Index name	AZMOL Delta Cuttana SM
Concentrate	
Appearance	Homogeneous liquid of brown color
Smell	Specific, not irritating
Density at 20°C, kg/m <sup>3</sup>	1060
3% working solution	
Emulsion stability	Withstands
Corrosive impact on steel and cast iron (dropping method)	None
Corrosive impact on cast iron (IP287 Method)	None
pH, units	9,6

### Note:

When **AZMOL Delta Cuttana SM** is first poured into a machine that previously worked on another product, it is recommended to clean it from sludge and other types of contamination, washing and disinfecting with detergent or detergent disinfectant and, if not, using soda ash. The service life and quality of the working emulsion depends on the quality of the water (the use of process water, water with a high content of sulphates or chlorides is undesirable), the presence of mechanical impurities in the centralized system, foreign oil and other contaminants. If possible, such pollution should be minimized; If any other oil gets into the coolant system, it is recommended to use systems for collecting oil from the surface of the working solution (oil skimmers). If there is significant contamination, the solution should be replaced with a fresh one after appropriate cleaning of the system. For more information please contact our technical service.

### Health and safety:

The coolant does not negatively influence on health of human in terms of following the recommendations for application and health and safety regulations.