

## UNICOOL WO

### GENERAL FEATURES:

Unicool WO is a concentrate of high-oil coolant which produces with water stable milk emulsion. It is manufactured basing on mineral oil base and a set of additives improving e.g. lubricating, anticorrosive antifoaming properties of the ready-to-use product. Unicool WO is free of harmful ingredients: nitrites, chlorine, heavy metals and phenols.

Unicool WO based working fluids are featured by:

- good lubricating and antifoaming properties,
- very good cooling and moistening properties,
- high resistance to microbiological contamination.

### APPLICATION:

Unicool WO concentrate in form of water based cooling and lubricating emulsion is applied in various kinds machining of steel, cast-iron and non-ferrous metals and their alloys.

Recommended concentration of Unicool WO based emulsion (with water of hardness of 15°N) depending on the machining kind and material type:

- grinding: 3÷4% - standard machining (turning, milling) 4-8% - hard machining (e.g. threading) 8÷10% (up 15% - in case of very hard machining).

### STANDARDS, APPROVALS. SPECIFICATION:

Polish National Institute of Hygiene (PZH) approval.



## Physical and chemical properties:

PARAMETERS	UNIT	TYPICAL VALUES
Concentrate:		
Appearance at 20°C	-	Homogeneous, limpid, amber colour fluid
Flow temperature	°C	-12
Mineral oil content	%	ca. 69
Kinematic viscosity at. 40°C	mm <sup>2</sup> /s	29.0
Appearance at 20°C	-	Milk emulsion
Corrosiveness to steel, Herbert test	-	H0
pH	-	9.2
Refractometric factor at 20°C		1.47

**NOTE:**  
Physicochemical parameters listed in the table are typical values. Real values are stated in quality control certificates attached to each product lot.

