

# EASycUT POLY601

## WATER-MISCIBLE POLYMER BASED COOLANT FOR CNC MACHINING INCLUDING ULTRASONIC

Water-miscible polymer based concentrate of lubricating and cooling fluid. POLY601 is designed for high performance machining including ultrasonic operations of alloyed and non-alloyed steels, cast iron, titanium and non metall materials.



### COMPOSITION FEATURES

- Does not contain boric acid.
- Does not contain formaldehyde.
- Does not contain mineral oil.
- Contains amines.
- Base — polymer (glycol).

### PRODUCT PROPERTIES AND ADVANTAGES

- Stable mixing of the emulsion with water hardness from 0 °dH to 20 °dH; During operation (accumulation of salts), an increase in water hardness up to 40 °dH is allowed.
- High corrosion protection characteristics.
- Low foaming when using water of recommended hardness.
- Good washability (clean equipment).
- High performance machining of hard materials.
- Very good air release property.
- High surface quality and low tool wear due to well-balanced additives.

### TECHNICAL DATA

- Kinematic viscosity of the concentrate at 20 °C: 70 mm<sup>2</sup>/s
- ≈Mineral oil content: 0%
- pH of fresh 5% emulsion: 9.5
- Corrosion protection DIN 51360/2: 4% — corrosion degree 0
- Refractometer factor: 1.4 %/°Brix.

### RECOMMENDATIONS AND FEATURES

- To prepare a high-quality finely dispersed emulsion, it is recommended to use the automatic mixer device ZH-30.
- For manual preparation, it is recommended to slowly add the concentrate to the water (not water to the concentrate), mixing evenly.
- The recommended concentration depends on the cutting operations and the material being processed. Turning and milling operations: light to medium duty machining from 6%, heavy duty machining from 8%.
- The concentration of the working emulsion is measured by a manual (LQ20T) or electronic refractometer. To do this, the read value is multiplied by the refractometer factor of 1.4.

### COMMENTS

Minor variations in color and appearance are possible due to the raw materials chosen. However, these have no influences on the functionality of the product.

All information on safe and proper handling can be found on the MSDS.

EASycUT POLY601 at [www.cncmarket.ca](http://www.cncmarket.ca)

### SHELF LIFE AND STORAGE CONDITIONS

Stable for 12 months when stored at a temperature of 5 °C to 40 °C in unopened containers.



Designed in Germany

Import to Canada: CNCmarket.ca, 1144 Legacy Cir SE, Calgary, AB, Canada

The technical data are representative values. All recommendations are without obligation. We reserve the right to change the contents of this document without prior notice.