

EMULGOL ES-12

GENERAL FEATURES:

Emulgol ES-12 machining oil is manufactured basing on highly refined mineral oil, ionic and non-ionic emulsifiers, corrosion inhibitors and enriching additives.
Emulgol ES-12 does not contain: nitrites, chlorine, heavy metals and phenols.

APPLICATION:

Emulgol ES-12 emulsifying oil in form of water based cooling and lubricating emulsion is applied in machining of steel, cast iron and non-ferrous metals and their alloys.
Recommended concentration of Emulgolu ES 12 based emulsion (with water of hardness of 15°N) depending on the machining kind and material type:

- grinding 3-5%,
- turning, milling, drilling, reaming - 5-10%,
- threading - 10-15%,

STANDARDS, APPROVALS. SPECIFICATION:

Polish National Institute of Hygiene (PZH) approval. ISO 6443/7 (PN-90/C-96099/10)

PARAMETERS	UNIT	TYPICAL VALUES
Concentrate: Appearance at 20°C	-	Homogeneous, limpid, amber colour fluid
Flow temperature	°C	-12
Kinematic viscosity at. 40°C	mm ² /s	30.5
5% emulsion in 15°C water: Appearance at 20°C	-	Milk emulsion
Corrosiveness to steel, Herbert test	-	H0
pH	-	9.1
Refractometric factor at 20°C	-	1.44

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

