

Aral Sarol 471 EP

Water miscible cutting fluid

Applications:

Aral Sarol 471 EP is a mineral oil based, chlorine and nitrate free, water miscible, universal cutting fluid for the cutting and grinding of all metals. With a selected additive combination it has a sufficient lubrication performance available for heavier machining operations.

Aral Sarol 471 EP contains no bactericide and is free of amines and boric acid. Present knowledge shows the creation of nitro amine is not possible.

Mixing with water gives a fine whitish dispersible cutting fluid emulsion, with a high emulsion stability and a long emulsion life.

Beside a good corrosion protection ability, Aral Sarol 471 EP has a good skin compatibility and a pleasant odour.

Aral has successfully submitted this product to the strict requirements of the high-quality standard DIN EN ISO 9001. This certification gives you an additional safety assurance with this products quality and the service that can be expected from Aral.

Operational area:

According to our experience, the following concentration adjustments are to be made to achieve optimal processing results:

Light to medium machining : 4-6 %
Medium to heavy machining : 4-8 %
Grinding : 3-5 %

Technical Data

Concentrate

Colour			Medium brown
Density at 20 °C	g/ml	DIN 51757	0,95
Viscosity at 20 °C	mm ² /s	DIN 51562	200
Mineral oil content	%	DIN 51417	48

Emulsion

pH value at 3%		DIN 51369	9,0
EP-value (Reichert) 5%	mm ²		27

Corrosion protection

Herbert test		DIN 51360-1	S0 R0 at 2,0%
Chip/filter paper	Korr. Grad.	DIN 51360-2	0 at 5,0%

Remarks:

Preparation of the solution occurs by pouring into drinking water, and thoroughly stirring by hand or with the aid of automatic mixing device.

Refractometer factor: 1,0

All data is subject to development for the product and the production process.

Version-No.: IS0212040006