

Product Information

WATER-MISCIBLE METAL WORKING FLUIDS

ALUMET®

- A range of high performance products particularly suitable for use with hard to machine materials
- The combination of mineral oil with performance enhancing additives ensures outstanding lubrication in metal cutting or forming. Its modern emulsifier and stabiliser system provides long emulsion life for use in both stand-alone machines and central systems.
- All ALUMET® - cutting fluids are free of chlorine and nitrite and are also inhibited against nitrosamine formation.



ALUMET® AL 900

ALUMET® AL 900 is a boron-free all-purpose product suitable for machining and forming of ferrous and non-ferrous metals. The performance of the product is such that it can also be used on hard to machine materials.

ALUMET® AL 900 prevents the formation of solid residues even under unfavourable conditions.

APPLICATION AND PROPERTIES:

- Machining of steel, grey cast iron and aluminium alloys
- Very large application area (among others, turning, drilling, milling, grinding)
Particularly suitable for light forming processes
- Excellent compatibility with various material
- Highly recommended also on stand-alone machines
- Longer sump life due to its high stability
- Excellent residue behaviour
- Its high washing and flushing action ensures cleaner machines and work pieces
- Excellent protection against corrosion
- Outstanding skin compatibility



Cooling • Lubricating • Removing Chips

RECOMMENDED CONCENTRATION (DEPENDING ON PROCESS AND MATERIAL):

Grinding operations, light – medium machining	Heavy machining, forming
5 %	5 – 8 %

PI ALUMET® AL 900 Art. No. 40875.18 Q. No. 0611039 Print date 24.05.07, last update 02.05.07

STORAGE CONDITIONS:

The concentrate is to be stored at room temperature (ideal storage temperature is between +10 °C (50 °F) and +30 °C (86 °F)). Its guaranteed shelf life under the indicated conditions is 6 months.

INDUSTRIAL HEALTH AND SAFETY - ENVIRONMENTAL PROTECTION

ALUMET® AL 900

- Is not obliged to be labelled under the dangerous substances ordinance
- Complies with German TRGS 611 (Prevention of Nitrosamine formation)

MIXING:

As with every water miscible metalworking fluid, it is important to observe the mixing sequence. As a basic principle always add the concentrate to the agitated mixing water. This is best achieved by using a proportional mixing system to ensure correct operating concentration.

TREATMENT AND DISPOSAL:

Used water miscible metal working fluids must be thoroughly processed before they are disposed of.

ALUMET® emulsions can be pre-treated according to the standard procedures (ultra filtration, vaporiser, organic splitting) to reduce the water content. For more comprehensive information, please consult our technical service department.

All disposal procedures should be compliant with local waster regulations concerning mineral oil based products.



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DATA OF WATER-MISCIBLE CONCENTRATE:

Determination	Method	Unit	Value
Density, 20 °C	DIN 51 757	[kg/m ³]	982
Kin. viscosity, 40°C	DIN 53 018	[mm ² /s]	43
Refractive, n _D ²⁰	DIN 51 423	---	1.454

DATA OF WATER-MIXED EMULSION:

Determination	Method	Unit	Value
pH-value 5.0 %	DIN 51 369	---	9.4
Corrosion test	DIN 51 360/1	[wt.%] - S0/R0	2.5
Corrosion test	DIN 51 360/2	[wt.%] - K0	4.0

FACTORS:

- Refractometer: 1.1
- Other factors on request