

### FRIGOMET® 81 N

FRIGOMET® 81 N is a fully synthetic cutting fluid free of oil. The product is suitable for standard to medium machining applications with steel and non-ferrous metals. Its excellent flushing and wetting performance provides an efficient removal of chips and swarf. This qualifies the product especially for high performance grinding operations.

#### FEATURES / BENEFITS :

- Free of mineral and synthetic oil, transparent
- Suitable for the machining of steel, cast iron, aluminium alloys and non-ferrous metal
- Excellent flushing and wetting action, high swarf transportation and cooling efficiency
- Long sump life due to high stability formulation
- Easy maintenance by tramp oil separation

#### DATA OF WATER-MIXED EMULSION:

Determination	Method	Unit	Value
pH-Value 5.0 %	DIN 51 369	---	9.1
Corrosion test	DIN 51 360/1	[w/w] - S0/R0	3.5
Corrosion test	DIN 51 360/2	[w/w] - K0	4.0

#### DATA OF WATER-MISCIBLE CONCENTRATE:

Determination	Method	Unit	Value
Density, 20 °C	DIN 51 757	[kg/m³]	1083
Kin. viscosity, 40 °C	DIN 53 018	[mm²/s]	15
Refractive, $n_D^{20}$	DIN 51 423	---	1.394

#### Recommended concentration (depending on process and material):

3 – 5 % grinding and light machining

5 – 8 % medium machining

#### Factors:

Refractometer : 2.4 (other factors on request)

#### Storage conditions :

Room temperature, between +10 °C (50 °F) and +30 °C (86 °F).

Guaranteed shelf life under indicated conditions is 12 months.

#### Industrial Health and Safety - Environmental Protection:

Complies with German TRGS 611 (Prevention of Nitrosamine formation). Is not obliged to be labelled under the European Directive for Classification, Packaging and Labelling of dangerous Preparations.

#### Disposal:

In compliance with the local waste regulations for mineral oil based products.

Please request for more detailed information.