

SPIRIT MS 5000



Metalworking

Multipurpose chlorine-free micro-emulsion.

UTILISATIONS

- **SPIRIT MS 5000** is recommended in workshops handling many different machining operations and materials.
- Particularly suitable for difficult machining processes.
- Machining ferrous and non-ferrous metals.
- **SPIRIT MS 5000** gives very good results in plane, cylindrical or centerless grinding.
- Recommended proportions:
 - grinding : 4%
 - moderate machining : 5 to 7%
 - severe machining : 6 to 9%.

SPECIFICATIONS

ISO 6743/7

- ISO-L MAE

ADVANTAGES

- Excellent corrosion protection properties.
- Very wide range of applications.
- Excellent wetting and cooling capability.
- Very easy to use: simply pour **SPIRIT MS 5000** into good quality water.
- Excellent stability over time increases drain intervals.
- Non-foaming.
- Good resistance to bacterial growth.

HANDLING OPERATIONS - HEALTH - SAFETY

- **SPIRIT MS 5000** has no particular smell and contains no phenols, nitrites, PTBB, chlorine, diethanolamine (DEA).
- **SPIRIT MS 5000** satisfies the German TRGS 611 legislation (technical rules governing the handling of hazardous substances).

TYPICAL CHARACTERISTICS	METHODS	UNITS	SPIRIT MS 5000
Appearance	Visual		clear
Density at 15°C	ISO 3675	kg/m ³	990
Kinematic viscosity at 40°C	ISO 3104	mm ² /s	51
Appearance	Visual		Opalescent
pH at 5%	NF T 60 193		9.2
Refractometric correction factor			1.2
Corrosion protection properties at 3%	DIN S 1360/2		0/0

Above characteristics are mean values given as an information.

TOTAL LUBRIFIANTS
Industrie & Spécialités
02-02-2009 (supersedes 22-12-08)
SPIRIT MS 5000
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This lubricant used as recommended and for the application for which it has been designed does not present any particular risk.
A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial adviser or down loaded from www.quick-fds.com.