SPIRIT NATURA 5000





SPIRIT NATURA 5000 is one of the latest-generation of non-oil derived soluble cutting fluids without mineral oil. The plant resources used make it possible to obtain exceptional performances for all types of ferrous metals and aluminium.

APPLICATIONS

- SPIRIT NATURA 5000 is recommended for heavy to very difficult machining operations on all types of ferrous metals and aluminium.
- **SPIRIT NATURA 5000** does not contain mineral oil. It is suitable for milling, sawing, broaching, thread-forming and deep drilling.
- Recommended rate of use:
 - heavy machining: 5 to 7%
 - very heavy machining: 7 to 10%.

SPECIFICATIONS

ISO 6743/7

Code ISO-L MAH

ADVANTAGES

- SPIRIT NATURA 5000 is very easy to use, simply by pouring it into good quality water.
- Excellent cooling and lubricant power.
- Efficient protection of machined parts and machines against corrosion.
- Good mechanical performances, providing:
 - Reduced cutting efforts
 - Extended tool lifetime
 - Very good surface finish to parts.
- Properties in service:
 - Excellent stability over time increases drain intervals;
 - Cuttings have low rate of humidity;
 - Good anti-foaming properties.
- Resist to the development of bacteria and mould very well, thus it is more environmentally and operator friendly.
- SPIRIT NATURA 5000 is formulated from renewable resources to ensure better operator and environmental friendliness.
- Exceptional lubrication performances and very good wetting power due to the plant bases used.
- SPIRIT NATURA 5000 also guarantees optimal operating conditions without forming sticky deposits.







HEALTH AND SAFETY

- Does not contain: formaldehyde liberators or boron.
- Is free of: chlorine, PTBB, nitrite, DEA and phenol.
- Is free of: mineral oil.

TYPICAL CHARACTERISTICS	METHODS	UNITS	SPIRIT NATURA 5000	
			CONCENTRATE	EMULSION AT 5%
Density at 15°C	ISO 3675	kg/m³	981	
Kinematic viscosity at 40 °C	ISO 3104	mm²/s	< 70	
pH at 5%	NF T 60 193			9.2
Refractometric factor			1.2	

Above characteristics are mean values given as an information.

RECOMMENDATIONS FOR USE

- To ensure good conservation of the fluid's properties through time and thus increase its lifetime, we recommend:
 - Regular monitoring of the concentration of the bath with a refractometer. Do not forget to multiply the reading value by the refractometric factor.
 - Regular monitoring of the pH of the emulsion and the hardness of the water.
- Total offers its clients a regular laboratory fluid analysis service: SOLUBLE CHECK.
 - Get in touch with your sales contact to obtain further information.
- Before using any fluid for the first time or before each change, we recommend cleaning the machine with a specific cleaning product: CONTRAM CB 3.
- If punctual top-ups of Biocide are required, Total offers an efficient product: EBOTEC BT 80.

Your sales and technical contacts are ready to provide you further information.

