

GOLDENSTONE® SYNTHILIN 5

Technical Data Sheet (TDS) METALWORKING FLUIDS

Description and Application

Goldenstone® Synthilin 5 is fully synthetic concentrate based on polyglycols, synthetic acids and other anticorrosion additives. This product contains boric acid and amines but is free from lactic acid.

The water-miscible cutting fluid **Goldenstone® Synthilin 5** is suitable for application in grinding operations of steel and cast iron and forms transparent solutions. It ensures excellent protection against corrosion, wear and bacterial growth. The recommended concentrations are as follows:

- Grinding of steel: 4-5%
- Grinding of cast iron: 5-6%

Benefits

- Compatible with a wide range of water hardness up to 60°dH (1080 ppm)
- Ensures superior cutting tool cooling and detergency
- Forms transparent solutions, which allows excellent visibility of workpieces
- Minimized foaming tendency
- Reliable rust and corrosion protection for ferrous metals
- Extended service life
- Very good filterability
- Resistance to bacteria and fungi

Use and applicable operations

	Water-Miscible MWF
Cast iron	Suitable
Steel	Extremely suitable
Yellow metals	Suitable with some limitations
Aluminium	Suitable with some limitations
Grinding	Suitable
Cutting	Not suitable
Forming	Not suitable
Additional properties: lubricity/ EP	None

Refractive index – 2.6% per °Brix

Specifications

	Water-Miscible MWF
ISO 6743/7	ISO-L-MAG

Typical Characteristics

Parameter	Test Method	Typical Value
Density at 20°C, g/ml	EN ISO 3675	1.100
Properties of water solutions:		
- pH (at 3 %)	ISO 4316	9.2
- Foaming (at 3 %), mm/s	BDS 14887	0/0
- Cast iron corrosion (at 3%)	BDS 14912	Pass
- Steel corrosion (at 3%)	BDS 14912	Pass
- Corrosion protection (Herbert test at 4%)	DIN 51360/I	R0/S0 - no corrosion
- Corrosion protection (chip/filter paper test at 5%)	DIN 51360/II	0/0 - no corrosion

Important note: typical data values do not constitute a specification but are an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved.

Health, Safety and Handling

Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application.

For more information about product MSDS, terms and conditions for storage and shelf life please visit:

<http://www.goldenstoneoils.com>

Fluid must be stored in closed and dry warehouses. The concentrate will stay stable if stored at temperatures from 4°C to 50°C for up to 12 months. After opening keep the container with concentrate tightly closed.

Packages

20L, 227 kg

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