

Product Information

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OEMETOL 576

is a high performance machining oil based on synthetic ester oils. The product is suitable for the machining and forming processes. It is also usable as a HEES hydraulic oil.

Benefits:

- Free of heavy metals, zinc, and chlorine
- Particularly suitable for the machining of ferrous and non ferrous metals
- Excellent suitable for forming processes
- Also usable as a HEES hydraulic oil
- Very good pressure absorption
- Outstanding lubricating performance results in low tool wear and increased machine productivity

Data of the Product:

Determination	Method	Unit	Value
Density, 20°C	ASTM D 1298	[kg/m ³]	915
Kin. viscosity, 40°C	ASTM D 445	[mm ² /s]	46
Flash point	ASTM D 92	[°F]	572
Copper Corrosion	ASTM D 130	Corrosion category (3h at 212°F)	1a

Recommended concentration (depending on application and conditions):

100%

Shelf Life/ Storage Conditions:

12 months under ambient storage conditions

Industrial Health and Safety - Environmental Protection:

For more details about health and safety please read the information on the safety data sheet.

Disposal:

In compliance with the local waste regulations

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use as a HEES hydraulic oil.

Benefits:

- Hydraulic oil of ISO VG 46 classification
- Very good wear protection due to high lubricant power
- Compatibility with sealing materials and paints
- High stability against oxidation and ageing

Application Notes:

Before use, please take note of our product information on procedure for "Changeover of a Hydraulic System to OEMETOL 576".

Data of the Product:

Determination	Method	Unit	Value
Colour	(ASTM)	- / -	1.5
Refractive index, n_D^{20}	DIN 51 423/2	- / -	1,471
Saponification number	DIN 51559	mg KOH/g	165
Neutralisation number NN (s)	DIN 51558	mg KOH/g	2
Flash point	DIN ISO 2592	°F	572
Burning point	DIN ISO 2592	°F	698
Ignition temperature	DIN 51794	°F	896
Pour point	DIN ISO 3016	°F	< -27.4
Behaviour vs. seal mats. Material SRE NBR1 (168/100/°C)			
Volume change	-	% / -	11.3
Tensile strength	-	% / -	-2.4
Elongation	-	% / -	-7.3
Hardness (Shore A)	-	- / -	-7
Ash content	DIN 51575	% wt / -	< 0.1
Corrosion vs. steel	DIN 51585	- / -	0 - A
Foaming behaviour	DIN 51566	- / 75.2 °F - / 201.2 °F 75.2°F / 201.2 °F	No foam No foam No foam
Mechanical testing in rotary vane pump, test pressure 140 bar, test duration 250 h wear	DIN 51389-A -	mg on ring mg on vane	249 38
Pressure absorption	-	N	> 1400