

SYNATIVE ES EHTI

Composition

2-Ethylhexyltallow fatty acid ester

Technical Data

Item	Value	Method / Remarks
Appearance:	Clear, yellow liquid	
Acid Value:	max. 0,5	DIN EN ISO 3682 DGF C-V 3
Iodine Value:	35 - 47	DIN 53241
Hydroxyl Value:	max. 0,8	DIN 53240 DGF C-IV 17a
Saponification Value:	140 - 150	DIN EN ISO 3681 DGF C-V 3
Density: 20 °C	0,861 - 0,865 g/cm ³	DIN 51757 V4
Viscosity: 20°C	12 - 15 mPa.s	DIN 53015
Viscosity: 40 °C	8,1 mm ² /s	DIN 51562 part1 1
Iodfarbzahl/ Iodine Colour No.:	max. 2	DIN 6162

Quality Control Data

(These data are used for quality release and are certified for each batch.)

Item	Value	Method / Remarks
Acid Value:	max. 0,5	DIN EN ISO 3682 DGF C-V 3
Saponification Value:	140 - 150	DIN EN ISO 3681 DGF C-V 3

Additional Specifications

(Guaranteed specification values which are not determined on a regular basis.)

Item	Value	Method / Remark
Iodine Value:	35 - 47	DIN 53241
Hydroxyl Value:	max. 0,8	DIN 53240 DGF C-IV 17a
Density: 20 °C	0,861 - 0,865 g/cm ³	DIN 51757 V4
Viscosity: 20°C	12 - 15 mPa.s	DIN 53015
Iodfarbzahl/	max. 2	DIN 6162

Iodine Colour No.:

Properties & Use

Synthetic lubricant basestock, e. g. for metalworking fluids

Additional Technical Data

Kinematic viscosity (DIN 51562 part1 1)		
at 40°C	8,1	mm ² /s
at 100°C	2,8	mm ² /s
Viscosity index (DIN ISO 2909)	230	
Cloud point (DIN EN 23015)	-4	°C
Pour point (DIN ISO 3016)	max. -6	°C
Flash point (DIN ISO 2592)	min. 210	°C
Thermogravimetric Analysis (Cognis-Method TA-TGA-SOP 6) (Loss in mass-% when continuously increasing the temperature at a rate of 20 °C/min)		
200°C	1	%
250°C	10	%
300°C	60	%
EP and AW properties (Shell "Four-ball-Tester")		
Diameter of scull-caps (DIN 51350 part 3)		
at 450 N, 1 hour	0,60	mm
at 600 , 1 hour	1,80	mm
Welding load (DIN 51350, part 2)	1200	N

Hydrolytic stability (Cognis-Method CCE-CF-AWT)

after 0 h	max. 0,5
after 100 h	2,0
after 500 h	65,0

Revision-No.

1.1-10.2003 Effective October 8, 2003

The product can be stored for at least 2 years at ambient storage conditions and temperature without any deterioration.

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