

SYNATIVE ES EHPA

Composition

2-Ethylhexylpalmitate

Technical Data

Item	Value	Method / Remarks
Appearance:	Slightly yellow, oily liquid	
Active Matter:	95 - 100 %	Q-C 2507.0 (GC)
Cloud Point:	max. 2 °C	DIN EN 23015
Acid Value:	max. 0,5	DGF C-V 2
Iodine Value:	max. 2,0	DGF C-V 11 a
Hydroxyl Value:	max. 0,5	DGF C-IV 17 a
Saponification Value:	148 - 158	DGF C-V 3
Density: 20 °C	0,855 - 0,865 g/cm ³	DIN 51757 V4
Viscosity: 20°C	10 - 15 mPas	DGF C-IV 7 DIN 53015
Color: APHA	max. 100	DIN ISO 6271
Brechungsindex/ Refractive Index: 20°C	1,4460 - 1,4480	DGF C-IV 5

Quality Control Data

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

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Saponification Value:	148 - 158	DGF C-V 3
Density: 20 °C	0,855 - 0,865 g/cm ³	DIN 51757 V4
Brechungsindex/ Refractive Index: 20°C	1,4460 - 1,4480	DGF C-IV 5

Additional Specifications

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

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Cloud Point:	max. 2 °C	DIN EN 23015
Iodine Value:	max. 2,0	DGF C-V 11 a
Hydroxyl Value:	max. 0,5	DGF C-IV 17 a

Viscosity:	20°C	10 - 15 mPas	DGF C-IV 7 DIN 53015
Color:	APHA	max. 100	DIN ISO 6271

Properties & Use

Synthetic lubricant basestock, e. g. for metalworking fluids

Additional Technical Data

Kinematic viscosity (DIN 51562 part 1)		
at 40°C	8,5	mm ² /s
at 100°C	2,5	mm ² /s
Viscosity index (DIN ISO 2909)	165	
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	2	%
250°C	20	%
300°C	100	%
EP and AW properties Shell "Four-ball-Tester"		
Diameter of scull-caps (DIN 51350, part 3) at 450 N, 1 hour	0,87	mm
Welding load (DIN 51350, part 2)	1300	N
Ageing/Discolouring (Cognis-Method CCE-CF-AWT)		
a.) original colour	1	
b.) Gardner-colour		
at 150°C	1	
at 200°C	1	
at 250°C	14	

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

after 0 h	max. 1
after 100 h	--
after 500 h	--

Flash point (DIN ISO 2592) min. 200 °C**Smoke point** (DGF C-IV 9) 165 °C**Evaporation loss** (DIN 51581) 30 %**Carbon residue** (DIN 51551) max. 0,1 %**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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