

SYNATIVE ES ITS

Composition

Isotridecylstearate

Technical Data

Item	Value	Method / Remarks
Appearance:	Clear, slightly yellow liquid	
Acid Value:	max. 0,5	DIN EN ISO 3682
Iodine Value:	max. 2,0	DIN 53241
Hydroxyl Value:	max. 5,0	DIN 53240 DGF C-V 17 a (53)
Saponification Value:	122 - 132	DIN EN ISO 3681
Density: 20 °C	0,856 - 0,863 g/cm ³	DIN 51757 V 2
Viscosity: 20°C	28 - 31 mPa.s	DIN 53015
Color: Lovibond 5,25" gelb/yellow rot/red	max. 2 max. 0,5	DGF C-IV 4b
Brechungsindex/ Refractive Index: 20°C	1,453 - 1,455	DIN 51423

Quality Control Data

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

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Acid Value:	max. 0,5	DIN EN ISO 3682
Hydroxyl Value:	max. 5,0	DIN 53240 DGF C-V 17 a (53)
Saponification Value:	122 - 132	DIN EN ISO 3681
Color: Lovibond 5,25" gelb/yellow rot/red	max. 2 max. 0,5	DGF C-IV 4b
Brechungsindex/ Refractive Index: 20°C	1,453 - 1,455	DIN 51423

Additional Specifications

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

Item	Value	Method / Remark
Iodine Value:	max. 2,0	DIN 53241
Density: 20 °C	0,856 - 0,863 g/cm ³	DIN 51757 V 2
Viscosity: 20°C	28 - 31 mPa.s	DIN 53015

Properties & Use

Synthetic lubricant basestock, e.g. for metalworking fluids

Additional Technical Data

Cloud point (DIN EN 23015)	max. 9	°C
Pour point (DIN ISO 3016)	max. 7	°C
Kinematic viscosity (DIN 51562 part 1)		
at 40°C	15 - 17	mm ² /s
at 100°C	4,2	mm ² /s
Viscosity index (DIN ISO 2909)	min. 150	
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	0	%
250°C	3	%
300°C	22	%
EP and AW properties Shell "Four-ball-Tester"		
Diameter of scull-caps (DIN 51350 part 3) at 450 N, 1 hour	0,6	mm
Welding load (DIN 51350, part 2)	1200	N

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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