SYNATIVE ES BS

Composition

n-Butylstearate

Technical Data

Item		Value	Method / Remarks
Appearance:		Clear, yellowish liquid	
Flash Point:		min. 190 °C	DIN ISO 2592
Cloud Point:		max. 25 °C	DIN EN 23015
Pour Point:		max. 23 °C	DIN ISO 3016
Acid Value:		max. 0,5	DIN EN ISO 3682
Iodine Value:		max. 1	DIN 53241
Hydroxyl Value:		max. 3	DIN 53240 DGF C-V 17 a (53)
Saponification Value:		170 - 177	DIN EN ISO 3681
Density:	30°C	0,847 - 0,853 g/cm³	DIN 51757
Viscosity:	30°C	6,5 - 7,5 mPa.s	DIN 53015
Color:	Lovibond 5,25" gelb/yellow rot/red	 max. 1,5 max. 0,5	DGF C-IV 4b
Refractive Index:		1,439 - 1,442	Test
Cloud Point Index:			
Brennpunkt		1,439 - 1,442	DIN 51423

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
Hydroxyl Value:		max. 3	DIN 53240 DGF C-V 17 a (53)
Saponification Value:		170 - 177	DIN EN ISO 3681
Color:	Lovibond 5,25" gelb/yellow rot/red	 max. 1,5 max. 0,5	DGF C-IV 4b
Brennpunkt		1,439 - 1,442	DIN 51423

Additional Specifications

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

Item		Value	Method / Remark
Flash Point:		min. 190 °C	DIN ISO 2592
Cloud Point:		max. 25 °C	DIN EN 23015
Pour Point:		max. 23 °C	DIN ISO 3016
Iodine Value:		max. 1	DIN 53241
Density:	30°C	0,847 - 0,853 g/cm³	DIN 51757
Viscosity:	30°C	6,5 - 7,5 mPa.s	DIN 53015

Properties & Use

FDA-listed synthetic lubricant basestock, e. g. for aluminium rolling oils

Additional Technical Data

Kinematic viscosity (DIN 51562 part 1)		
at 40°C	6,45	mm²/s
at 100°C	2,3	mm²/s
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	4	%
250°C	29	%
300°C	99	%
EP and AW properties Shell "Four-ball-Tester"		
Diameter of scull-caps (DIN 51350, part)		
at 450 N, 1 hour	0,60	mm
at 600 N, 1 hour	0,80	mm
Welding load (DIN 51350, part 2)	1200	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	-	

Hydrolytic stability (Cognis-Method CCE-CF-AWT)		
after 0 Std.	max. 0,5	
after 100 Std.	0,5	
after 500 Std.	9,0	
Smoke point (DGF C-IV 9)	155	°C
Evaporation loss (DIN 51581)	45	%
Carbon residue (DIN 51551)	0	%

Revision-No. 1.5-03.2006 Effective March 23, 2006

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

COGNIS DEUTSCHLAND GmbH & CO KG

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