

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/cm ³	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/cm ³	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	mm ² /s
at 100°C		2,3	mm ² /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.

All products in the text marked with an ® are trademarks of the Cognis group.

The information on product specifications provided herein is only binding to the extent confirmed by Cognis in a written Sales Agreement. COGNIS EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR THE SUITABILITY OF THE PRODUCTS FOR ANY SPECIFIC OR PARTICULAR PURPOSES INTENDED BY THE USER. Suggestions for the use and application of the products and guide formulations are given for information purposes only and without commitment. Such suggestions do not release Cognis' customers from testing the products as to their suitability for the customer's intended processes and purposes. Cognis does not assume any liability or risk involved in the use of its products as the conditions of use are beyond its control. The user of the products is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties.

COGNIS DEUTSCHLAND GmbH & CO KG

