LIALET® 125-7

Technical Data Sheet No. 1704 – November 2012

Description

LIALET® 125-7 is a fatty alcohol polyethylenglycol ether, based on LIAL® 125 and ethylene oxide (7 moles). It is manufactured in Terranova dei Passerini (Lodi, Italy) plant. The chemical structure is the following:

$$R - CH_2 - O - (CH_2 - CH_2 - O)_7 - H$$

$R = C_{11}H_{23}$ or $C_{12}H_{25}$ or $C_{13}H_{27}$ or $C_{14}H_{29}$ (mixture of linear and branched)

CAS registry no. 106232-83-1

Sales Specification

	Property	***Test Method***	***Unit***	***Guaranteed Value[1]***
*	Appearance at 25℃	visual	-	cloudy liquid
*	Colour	MPL 1002.0	APHA	≤ 50
	Physical state changement	MPL 1001.0	℃	13 - 18
*	Cloud point[a]	MPL 2001.0	℃	76 - 78
	Hydroxyl number	MPL 1010.0	mg KOH/g	104 - 110
	Molecular weight	calculated	g/mol	510 – 540
	Polyethylene glycols	MPL 2002.0	% weight	≤ 3.0
*	pH (5%)	MPL 1007.0	-	5.0 - 7.0
*	Water (Karl-Fisher)	MPL 1006.0	% weight	≤ 0.50

* values reported on inspection certificate.
[1] specification No. D002630 rev. 1 of June 1st , 2001.
[a] 10 wt% in BDG 25 wt% water solution.

Additional Properties

Property	***Test Method***	***Unit***	***Typical Value***
Ethylene Oxide content	calculated	% w/w	61
HLB	calculated	-	12.2
Viscosity at 50℃	RCM 3633	cSt	24
Density at 50℃	RCM 3663	kg/l	0.98
Flash point	RCM 3628	℃	> 125

RCM and MPL are Sasol Italy analytical methods, internal or referred to international standard. Additional information available upon request.

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Main Applications

LIALET® 125-7 is a multifunctional ethoxylated alcohol. It can be used as detergent product in the wool scouring process, as degreasing in leather treatment, as emulsifier in agrochemicals and agriculture applications. In metal working it shows good dispersing properties for chip or shaving particles as well as good emulsification behaviour regarding to the most common lubricating oils used. Its main application is focused on detergency for HDP formulations due to its high emulsification property at medium-low temperature.

Handling and Storage

LIALET® 125-7 should preferably be stored in stainless steel tanks.
It is a cloudy liquid at room temperature and it becomes clear liquid at temperature between 45 and 50℃.
It is preferable to avoid heating above 60℃ and to store under nitrogen in order to minimise yellowish phenomena.
At temperature lower than 15℃ this product becomes a solid wax. Improvement of storage stability at low temperature can be achieved by mixing LIALET® 125-7 with 5 to 15% of water.
At room temperature LIALET® 125-7 is water soluble up to 25 and 30 wt%.
Shelf-life is 36 months from production date for product in its original and sealed packaging.

Packaging

LIALET® 125-7 is generally supplied in drums, details on available packaging can be obtained from sales department.

Distribuito da:
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sito: www.tellerini.it mail: *info@tellerini.it*

Cod. 20163, 20152, 20153

Data regarding safety, transport classes, toxicology and biodegradability of the product can be obtained from the corresponding material safety data sheet.

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