



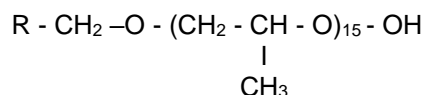
MARLOWET M 46 VG

Technical Data Sheet No. 5251 – April 2025

Product Description

MARLOWET M 46 VG is a fatty alcohol poly-glycol ether, based on LIAL 125 and propylene oxide. It is manufactured in Terranova dei Passerini (LO) plant.

The chemical structure is the following:



R = C_nH_{2n+1} n: 11÷14 (linear and mono-branched carbon chain)

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	ASTM D4176	-	Clear liquid
√ Colour	EN 1557	APHA	< 100
√ Hydroxyl number	EN 13926	mg KOH/g	53,0 - 58,0
√ Free Water (Karl Fischer)	ASTM E203	% mass	0,5 max
√ Kinematic viscosity (40°C)	ASTM D7042	mm ² /s	42,0 – 50,0

√ value reported on inspection certificate.

¹ specification No. D002629 rev. 2 of June 14th 2019.

Additional Properties

Property	Test Method	Unit	Typical Value
Average Molecular weight	Calculated	g/mol	1080
Pour point	ASTM D 97	°C	-54
Viscosity at 25°C	ASTM D445 / ASTM D7042	mm ² /s	124
Viscosity at 40°C	ASTM D445 / ASTM D7042	mm ² /s	48
Viscosity at 100°C	ASTM D445 / ASTM D7042	mm ² /s	9
Viscosity Index	ASTM 2270-04	-	180
Density at 25°C	ASTM D7042 / ASTM D4052	g/cm ³	0,9636
Density at 40°C	ASTM D7042 / ASTM D4052	g/cm ³	0,9488
Flash point	ASTM D 93	°C	



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Main Applications

MARLOWET M 46 VG is an ash free polyalkylene glycols; due to the absence of inorganic residues, the product can be used as a fuel additive exhibiting excellent deposit control.

MARLOWET M 46 VG is a high performance Group V synthetic fluid.

MARLOWET M 46 VG may be used as a friction modifiers or coupling agent.

MARLOWET M fluids are designed for gearboxes, bearings and chains operating in the most challenging conditions; the product may also be used as a base for refrigerant lubricants.

MARLOWET M fluids provide outstanding thermal stability, excellent extreme pressure and anti-wear performance as well as protection against micro-pitting.

MARLOWET M are synthesised to give viscosities according to the ISO VG standard. Products from the MARLOWET M series may be blended together to achieve other desired viscosities.

Handling and Storage

MARLOWET M 46 VG should preferably be stored in stainless steel tanks.

It is suggested to keep the product at temperature below 30°C, it is preferable to avoid heating above 50°C and to store under nitrogen in order to minimise yellowish phenomena.

MARLOWET M 46 VG is a clear liquid at room temperature; it has pour point close to – 50°C therefore it can be easily handled even at low temperature.

MARLOWET M 46 VG may naturally exhibit a pinkish color that do not have any impact on the quality and performance of the product and that tends to fade over time.

Shelf-life is 36 months from production date for product in its original and sealed packaging.

Packaging

MARLOWET M 46 VG is generally supplied in bulk or in drums, details on available packaging can be obtained from sales department.

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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