

Technical Data Sheet

POLYGLYKOL D 41/40000 M 60

CLARIANT INTERNATIONAL LTD

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CONSUMER SPECIALTIESwww.ics.clariant.com
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Thickener for polymeric quenchants and fire-resistant hydraulic fluids

Composition	Polyalkylene glycol (ethylene oxide/propylene oxide random copolymer), 60% active in water
Product properties ¹	
Consistence (20°C)	Highly viscous liquid
Transparency (20°C)	Clear
Active substance content	Approx. 60 %
Gardner color	Max. 3
Water content	Approx. 38.0 – 41.0 %
pH value (10% w/w in water)	Approx. 10
Contact angle V2A steel (5% in aq.*)	Approx. 57.4 °
Surface tension (5% in aq. **)	Approx. 52.6 mN/m
Density (20°C) DIN 51757	Approx. 1.087 g/cm ³
Viscosity (40°C)	Approx. 2100 - 3000 mm ² /s
Cloud point (1% in aq.)	Approx. 78°C
Cloud point (5g in 25g 25% BDG)	Approx. 70°C

Profile

Application

Polyglykol D 41/40000 M 60 is based on a polyalkylene glycol (PAG) containing ethylene oxide (EO) and propylene oxide (PO) (ratio 4:1) and two terminal hydroxyl groups.

¹ These characteristics are for guidance only and not to be taken as product specifications. The tolerances are given in the product specification sheet. For further product properties, specifications, safety and ecological data, please refer to the MSDS.

*) Contact angle of water on V2A steel: 64°

***) Surface tension of water: 71.6 mN/m

Polyglykol D 41/40000 M 60 is used as thickening and lubricating component for fire resistant hydraulic fluids (HFC and HFC-E types) and for water-based quenching fluids.

It can also be used as a water soluble, lubricating component for fully synthetic metal working fluids.

Polyglykol D 41/40000 M 60 is acceptable as an ingredient for the use in lubricants with incidental food contact (HX-1) for use in and around food processing areas (NSF International / Nonfood Compounds Registration Program; Registration No. 159346).

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Safety

Please see Material Safety Data Sheet before handling the material.

Storage behaviour

When stored in a cold, dry place in a closed container Polyglykol D 41/40000 M 60 can be kept for at least two years.

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