

Product Fact Sheet



POLYGLYKOL[®] D 21/150

Base oil component

COMPOSITION

random ethylene oxide/propylene oxide copolymer



n:m = 2:1

CAS-Nr.: 9003-11-6

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| PRODUCT PROPERTIES ^{*)} | approx. | | approx. |
|--|----------------------|----------------------------------|--|
| Appearance at 20 °C | Clear viscous liquid | Density (DIN 51757) | [g/cm ³] (20 °C) 1.065 – 1.085 |
| Colour index [APHA] (EN 1557) | max. 80 | Cloud point (1% w/w in water) | [°C] 90 |
| Refractive index at 20°C (DIN 51432, Part 2) | 1.460 – 1.464 | Viscosity (DIN 51562) | [mm ² /s] (40 °C) 225 |
| Molecular weight [g/mol] | 2700 | Viscosity (DIN 51562) | [mm ² /s] (100 °C) 40 |
| Water content [%] (DIN 51777) | max. 0.3 | Viscosity Index (ASTM D2270) | 232 |
| pH value (10% w/w in water) (DIN EN 1557) | 5.0 – 7.0 | Pour point (ISO 3016) | [°C] -35 |
| Four ball test (DIN 51350/3 B 60 min. / 300 N) | [mm] 0,59 | Flash point (DIN 51376) | [°C] 250 |
| Seizure Load/Welding Load [N] | 1500/1800 | Ignition temperature (DIN 51794) | [°C] 375 |
| FZG Load stage (DIN 51354) | >12 | Sodium/potassium content [ppm] | max. 10 |

^{*)} These characteristics are for guidance only and are not to be taken as product specifications. The tolerances are given in the product specification sheet. For further information on product properties, toxicological, ecological and safety data, please refer to the safety data sheet.

PRODUCT PROPERTIES

Polyglykol D 21/150 is a clear neutral viscous liquid at room temperature. Polyglykol D 21/150 is soluble in water and polar organic solvents like acetone or methanol at room temperature. Polyglykol D 21/150 is insoluble in pure hydrocarbons. Polyglykol D 21/150 displays a very low solidification point of –35°C and no evaporation loss even at temperatures as high as 100°C. Viscosity of Polyglykol D 21/150 corresponds to ISO VG 220 class. The hygroscopy of Polyglykols increase with the EO ratio in the polymer.

STORAGE

When stored in a cold, dry place in a closed container Polyglykol D 21/150 can be kept for at least two years.

APPLICATION

Based on their physical and chemical characteristics D 21-type polyglycols are used for a wide variety of applications.

Fields of industrial application:

- Base oil component for high performance lubricants with low friction coefficients, excellent wear properties and good thermal stability
- Lubricant for high pressure compressors
- Water soluble, lubricating component of metalworking fluids
- Component of auxiliaries for leather and textile processing
- Defoamer for food and non-food applications
- Reactive alcohol component in chemical reactions
- Solvent and humectants for dyes and inks
- Heat transfer medium

To increase the stability against thermo oxidative degradation, Lubricant Additive 1655 N can be used.

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