

Glucopon® GD 70

® = Registered trademark of BASF

Alkali-resistant nonionic surfactant, primarily for use in detergents and cleaners

Chemical nature

Alkyl polyglucoside

PRD-No.*

30594438

* BASF's commercial product numbers.

Appearance

Glucopon® GD 70 is a clear, yellow or yellowish brown liquid at room temperature and tends to form sediment in the coldness.

Glucopon® GD 70 becomes clear liquid at approx. 40 °C.

Storage

- Glucopon® GD 70 should not be stored at temperatures substantially below 10 °C.
- Glucopon® GD 70 can become cloudy at low temperatures, but this has no effect on its practical performance. The cloudiness is reversible at 30 – 40 °C.
- Liquid that has solidified or that shows signs of precipitation should be heated to approx. 50 °C and homogenised before use.
- Drums that have solidified or that have begun to precipitate should be reconstituted by gentle heating, preferably in a heating cabinet. The temperature must not be allowed to exceed 50 °C. This also applies if drums are heated by external electrical elements. Internal electrical elements should not be used because of the localised anomalies in temperature that they cause.
- Glucopon® GD 70 can be stored in heated bulk storage tanks at 30 – 50 °C. Constant, gentle stirring helps to prevent it from being discolored as a result of prolonged contact with electrical elements or external heating coils.

Materials

The following materials can be used for tanks and drums:

- Stainless steel 1.4541 – AISI 321 stainless steel (X6 CrNiTi 1810)
- Stainless steel 1.4571 – AISI 316 Ti stainless steel (X6 CrNiMoTi 17122)
- Stainless steel 1.4306 – AISI 304 L stainless steel (X2 CrNi 1911)

Shelf life

Glucopon® GD 70 has a shelf life of at least two years, provided it is stored in its original packaging and kept tightly sealed.

Properties

	Unit	Value
Physical form (23 °C)		Liquid
Concentration	%	approx. 70
Water content (EN 13267)	%	approx. 30
pH (EN 1262, 5% in water)		approx. 8
Density (DIN 51757, 23 °C)	g/cm ³	approx. 1.18
Setting point (DIN 51583)	°C	approx. -10
Iodine color (EN 1557, 23 °C)		max. 100
Wetting (EN 1772, in distilled water containing 2 g/l soda ash) The figures in brackets were measured at 70 °C.		
0.5 g/l	s	>300 (>300)
1.5 g/l	s	approx. 160 (>300)
2.5 g/l	s	approx. 50 (approx. 80)
Foam formation (EN 12728, Sheet 1, 40 °C, 2 g/l in water with a hardness of 1.8 mmol Ca ions after 30 s)	cm ³	approx. 300

The above information is correct at the time of going to press. It does not necessarily form part of the product specification.

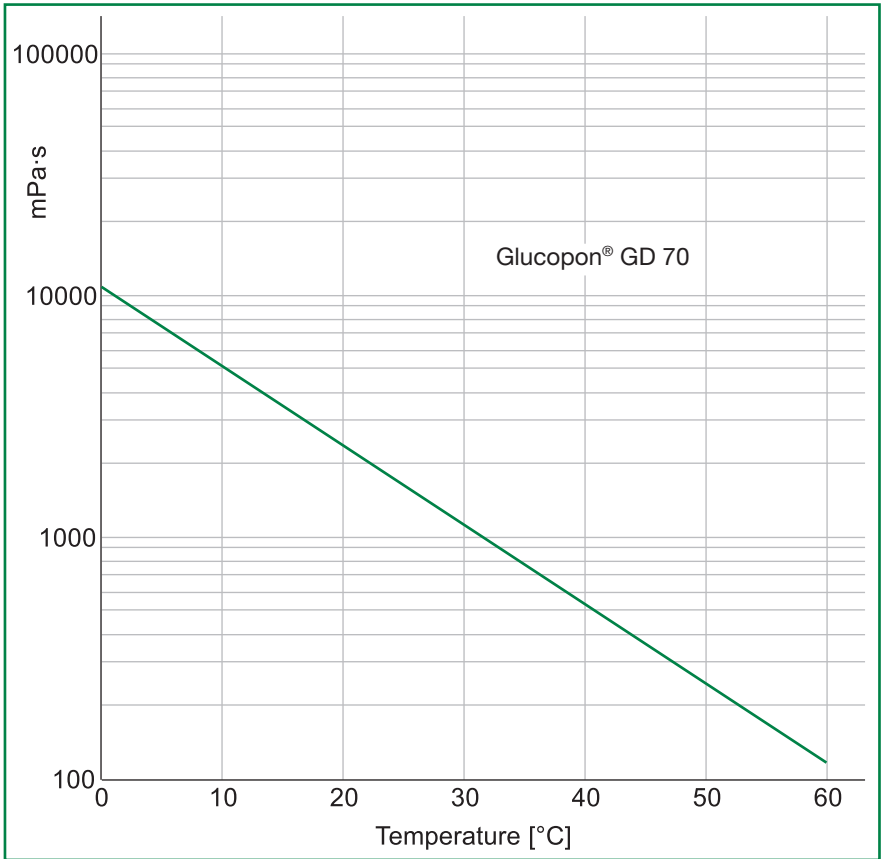
A detailed product specification is available from your local BASF representative.

Solubility

Glucopon® GD 70 forms a clear solution in water and caustic soda ($\leq 45\%$ NaOH) at a concentration of 10%.

Viscosity

The relationship between viscosity and temperature is always an important point to consider when Glucopon® GD 70 is to be stored or shipped. The following graph shows the viscosity of Glucopon® GD 70 as a function of temperature.



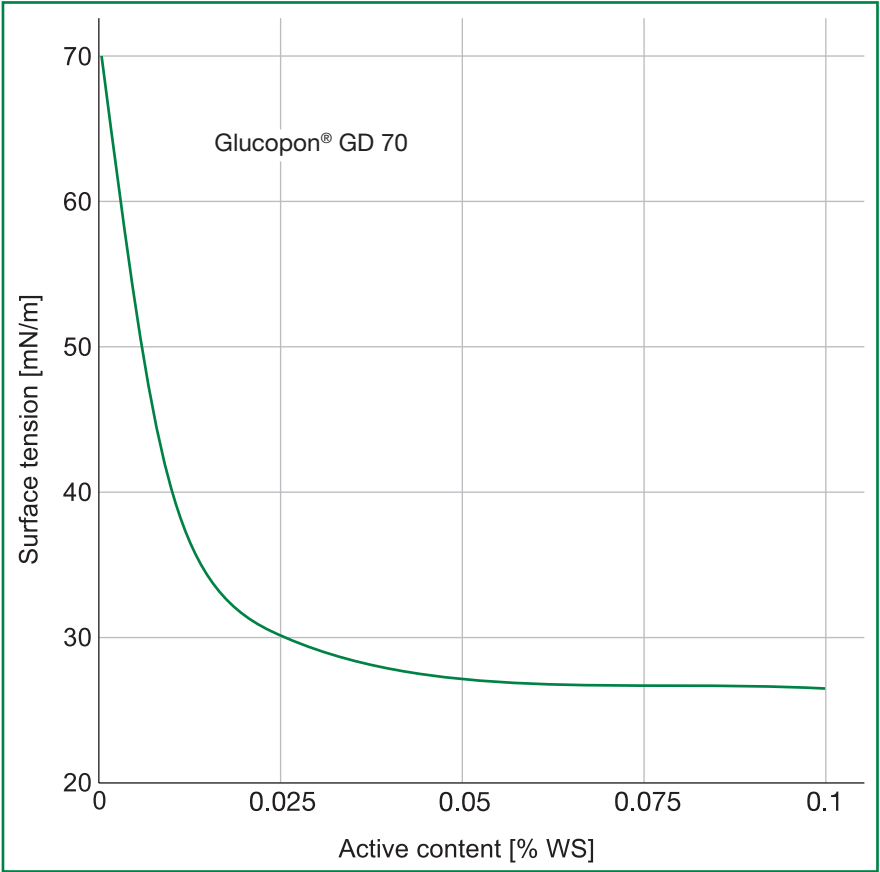
Viscosity as a function of temperature

Viscosity of mixtures of Glucopon® GD 70 and water at 23 °C (Brookfield LVT)

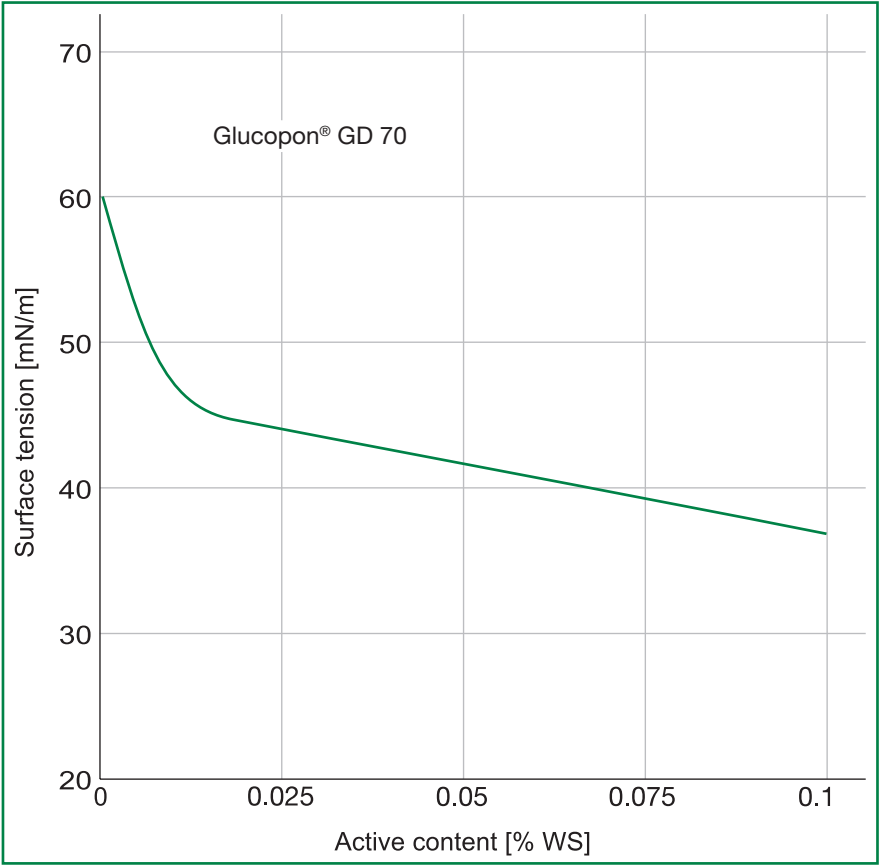
Water content (%)	Viscosity (mPa·s)
+10	650
+20	300
+30	80
+40	30
+50	15
+60	10
+70	<10

Surface tension

The following curves show the surface tension against concentration of solutions of Glucopon® GD 70 in distilled water and 3% caustic soda.



Surface tension (EN 14370) in distilled water



Surface tension (EN 14370) in 3% caustic soda

Safety

We know of no ill effects that could have resulted from using Glucopon® GD 70 for the purpose for which it is intended and from processing it in accordance with current practice.

According to the experience we have gained over many years and other information at our disposal, Glucopon® GD 70 does not exert any harmful effects on health, provided that it is used properly, due attention is given to the precautions necessary for handling chemicals, and the information and advice given in our safety data sheets are observed.

Labelling

Please refer to latest Safety Data Sheet for detailed information on product safety.

Note

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