

Technical Information

August 2017
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® = Registered trademark of BASF
in many countries.

Glucopon® 650 EC

Nonionic surfactant for the detergents and cleaners industry.



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Chemical character

Aqueous solution of alkyl polyglucosides based on natural, plant origin fatty alcohol C₈-C₁₆, free of preservatives.

PRD-No.*

30528571



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* BASF's commercial product numbers.

Appearance

Glucopon® 650 EC is a yellow, cloudy and viscous liquid at room temperature and tends to form sediment.

Handling and Storage**Handling**

- a) The storage temperature of Glucopon® 650 EC should not be allowed to exceed 40 °C.
- b) Liquid that has solidified or that shows signs of sedimentation should be heated to max. 70 °C and homogenized before it is processed. Please mix sufficiently prior to use.
- c) 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 60 °C (short time 70 °C). Please mix sufficiently prior to use. This also applies if drums are heated by external electrical elements. Internal electrical elements should not be used because of the localized anomalies in temperature that they cause.
- d) Glucopon® 650 EC must be blanketed with nitrogen if it is stored in heated tanks at approx. 40 °C to prevent it from coming into contact with air. Constant, gentle stirring helps to prevent it being discolored or damaged as a result of prolonged contact with electrical elements or external heating coils.
- e) Please refer to the latest Safety Data Sheet for detailed information on product safety.

Materials

The following materials can be used for tanks and drums:

- a) Stainless steel 1.4541 – AISI 321 stainless steel (X6 CrNiTi 18-10)
 - b) Stainless steel 1.4571 – AISI 316 Ti stainless steel (X6 CrNiMoTi 17-12-2)
- Seals have to be stable against aqueous alkali (e.g. Teflon, Teflon coated seals; Klingerit K-Sil C 4500).
 - Recommended as feed pumps: Screw rod pumps or rotary piston pumps.

Shelf life

Provided it is stored properly and drums are kept tightly sealed, Glucopon® 650 EC have a shelf life of at least two year in its original packaging.

Properties



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Some physical properties are listed in the table below. These are typical values only and not all of them are monitored on a regular basis. They are correct at the time of publication and do not necessarily form part of the product specification. A detailed product specification is available on request or via BASF's WorldAccount: <https://worldaccount.basf.com> (registered access).

Glucopon® 650 EC	Unit	Value
Physical form (23 °C)		liquid
Active matter (100%-water content)	%	approx. 52
Water content (EN 13267)	%	approx. 48
pH value (EN 1262, 20% in 15% IPA)		approx. 12
Density (DIN 51757, 40 °C)	g/cm ³	approx. 1.08
Pour Point (ISO 3016)	°C	approx. -7
Surface tension (EN 14370, 1 g/L in distilled water, 23 °C)*	mN/m	approx. 28
Wetting (EN 1772, dist. water, 23 °C, 2 g Soda ash/l) 0.5 g/L 1.0 g/L 2.0 g/L	s s s	>300 approx. 180 approx. 55
Foam volume (EN 12728, pg. 1, 40 °C, 2 g/L water at hardness of 1.8 mmol Ca- ions/l, after 30 s)	cm ³	approx. 500
Color Gardner (ASTM D 1544-80)		max. 3.0

* Applying Harkins-Jordan correction.

Solubility

Details on the solubility of Glucopon® 650 EC in various solvents are give in the table below (Solubility 10% at 23 °C).

Solvent	Solubility
Distilled water	O
Potable water (2.7 mmol Ca ²⁺ -Ions/l)	O
Caustic soda (5%)	O
Hydrochloric acid (5%)	+
Salt solution (5%)	O
Solvent naphtha	-
Ethanol, Isopropanol	-
Aromatic hydrocarbons	-

+ = clear solution

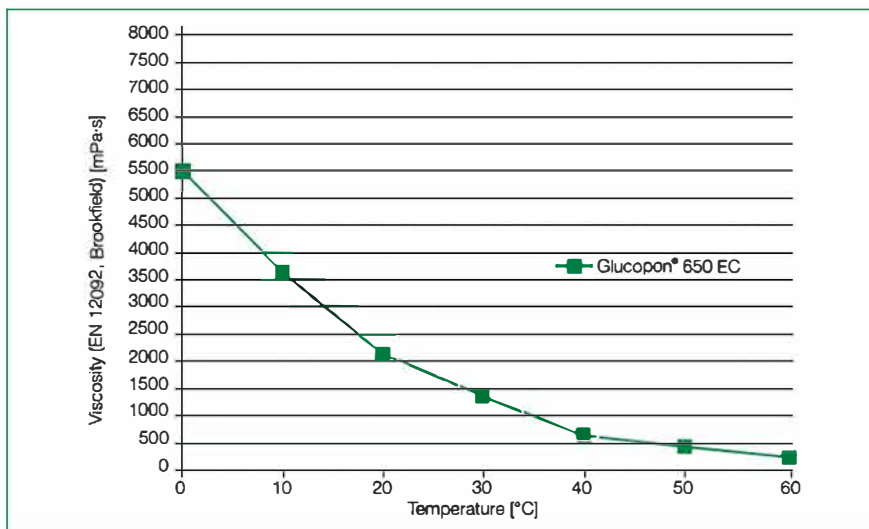
± = sparingly soluble (insoluble sediment)

- = insoluble (phase separation)

O = forms an opaque soluble, homogeneous emulsion

Viscosity

The relationship between viscosity and temperature is always an important point to consider when Glucopon® 650 EC is stored or shipped. This is shown in the following graphic (mPa·s, Brookfield LVT):



Viscosity of Glucopon® 650 EC after addition of (23 °C, Brookfield LVT)

Water addition (%)	Viscosity (mPa·s)
+10	650
+20	250
+30	110
+40	60
+50	30
+60	20
+70	<20

Safety

We know of no ill effects that could have resulted from using Glucopon® 650 EC for the purpose for which it is intended and from processing it in accordance with current practices.

According to the experience that we have gained over many years and other information at our disposal, Glucopon® 650 EC does not exert harmful effects on health, provided 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.

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