

Technical Information

August 2017

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® = Registered trademark of BASF
in many countries.

Sokalan® PA 30 CL

Polyacrylic acid, sodium-salt.



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Chemical nature

Polyacrylic acid, sodium-salt.



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30042885

* BASF's commercial product numbers.

Appearance

Sokalan® PA 30 CL is a clear, rarely slightly cloudy, colorless till slightly yellowish liquid at room temperature.

**Handling and Storage****Handling ONLY packaged goods**

- a) Sokalan® PA 30 CL should be stored in a dry place in its original sealed packaging.
- b) It is advised to tightly seal every opened container, if they were only partly emptied. Sokalan® PA 30 CL must be blanketed with nitrogen if it is stored after opening to prevent air contact.
- c) Usage, preferably, the total contents of a packing unit should be processed at once.
If this is not possible, the material should be homogenized before further use.
- d) Sokalan® PA 30 CL is frost sensitive! The storage temperature must be between min. +25 °C and max. +60 °C. Storage temperatures above +60 °C destroy the product properties. This is an irreversible process.
Storage temperatures above +25 °C will cause an increase of the color number.
- e) Drums or IBCs that contain solidified product or liquid that has begun to precipitate or separate should be reconstituted by gentle heating, preferably in a heating cabinet. The temperature must not be allowed to exceed max. +60 °C. It must be mixed 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 can cause.
- f) Sokalan® PA 30 CL must be blanketed with nitrogen if it is stored (at max. +60 °C) to prevent air contact. Constant, gentle stirring helps to prevent it being discolored as a result of prolonged contact with electrical elements or external heating coils.
- g) Please refer to the latest Safety Data Sheet for detailed information on product safety.

Handling ONLY bulk containers

- a) The storage temperature for bulk product must be between min. + 25 °C and max. + 60 °C. Storage temperatures above + 25 °C cause an increase of the color number.
- b) Sokalan® PA 30 CL can slightly separate during the storage time. The product must be homogenized before it is processed. It must be mixed sufficiently prior to use.
- c) Sokalan® PA 30 CL is frost sensitive! The storage temperature must be between min. + 25 °C and max. + 60 °C. Storage temperatures above + 60 °C destroy the product properties. This is an irreversible process. Storage temperatures above + 25 °C will cause an increase of the color number.
- d) Sokalan® PA 30 CL must be blanketed with nitrogen if it is stored in heated tanks (at max. + 60 °C) to prevent air contact. Air contact can cause discoloration. Constant, gentle stirring helps to prevent it being discolored 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

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The following materials can be used for tanks and drums:

- a) Stainless steel 1.4541 – AISI 321 (X6 CrNiTi 18-10)
- b) Stainless steel 1.4571 – AISI 316 Ti (X6 CrNiMoTi 17-12-2)
- c) Stainless steel 1.4306 – AISI 304 L (X2 CrNi 19-11)
- e) HDPE – high density polyethylene
- f) LDPE – low density polyethylene

It is not recommended to store Sokalan® PA 30 CL in plain carbon steel, because this would cause significant discoloration of the product within a short period of time.

Shelf life

Sokalan® PA 30 CL has a shelf life of at least 24 months in its original packaging.

Properties

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).



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Sokalan® PA 30 CL	Unit	Value
Physical form (25 °C)		liquid
Concentration (dry content) (ISO 3251, 0.25 g, 150 °C, 2 h)	%	approx. 45
Mean molar mass (Mw, BASF method, GPC)	g/mol	approx. 8500
pH value (DIN 19268, 10% dry substance in dist. water, 25 °C)		approx. 8
Color APHA (EN 1557, 25 °C)		max. 200
K value (ISO 1628-1, 1% dry substance in dist. water)		approx. 30
Viscosity (EN 12092, Brookfield, as is) 25 °C 40 °C 60 °C	mPa·s mPa·s mPa·s	approx. 1000 approx. 480 approx. 200
Density (DIN 51757, method 3, 25 °C) 25 °C 40 °C 60 °C	g/cm ³ g/cm ³ g/cm ³	approx. 1.34 approx. 1.32 approx. 1.31
Water content (ISO 760, K. Fischer method)	%	approx. 55
Solubility (visual, 25 °C, 10% dry substance in dist. water)		clear
Calcium carbonate dispersion capacity BASF method, pH 11, 60 °C	mg CaCO ₃ /g dry substance	approx. 105
Calcium carbonate dispersion capacity BASF method, pH 11, 23 °C	mg CaCO ₃ /g dry substance	approx. 125
Pour point (ISO 3016)	°C	approx. -20

Safety

We are not aware of any ill effect that can result from using Sokalan® PA 30 CL 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, Sokalan® PA 30 CL 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.

Labeling

Please consult the current Safety Data Sheets for information on the classification and labelling of our products and other information relevant to safety.

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