
Technical Information

Sokalan® PA 25 CL PN

Polyacrylic acid, Na-salt, partly neutralized.

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® = Registered trademark of BASF in many countries.

Chemical nature

Polyacrylic acid, Na-salt, partly neutralized.

PRD-No.*

30042865

*BASF's commercial product numbers.

Appearance

At room temperature Sokalan® PA 25 CL PN is an aqueous solution.

Handling and Storage**Handling**

- a) Sokalan® PA 25 CL PN should be stored in a dry place in its original sealed packaging. It is recommended to store Sokalan® PA 25 CL PN at temperatures between 10 °C and 25 °C.
- b) It is advised to tightly seal every opened container, if they were only partly emptied.
- c) The storage temperature must not exceed 60 °C and should exceed 25 °C only for a short period of time. Storage temperatures above 25 °C will cause an increase of the color number.
- d) Prolonged exposure to low temperatures (close to 0 °C or below) may cause deposition of crystalline or formation of gels.
- e) The homogenous state is to be recovered by gentle heating to about 20 °C up to 60 °C and stirring.
- f) Drums or containers that have solidified should be reconstituted by gentle heating, preferably in a heating cabinet. The temperature must not be allowed to exceed 60 °C. 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.
- g) To avoid discoloration, Sokalan® PA 25 CL PN must be blanketed with nitrogen if it is stored in heated tanks (up to 60 °C) to prevent it from coming into contact with air. Constant, gentle stirring helps to prevent it being discolored as a result of prolonged contact with electrical elements or external heating coils.
- h) Please refer to the latest Safety Data Sheet for detailed information on product safety.

Materials

Suitable materials to store this product are:

- 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) Polyethylene (HDPE/LDPE)

It is not recommended to store Sokalan® PA 25 CL PN in plain carbon steel, because this would cause significant discoloration of the product within a short period of time.

Shelf life

If stored properly in its original sealed packaging the shelf life is at least 18 months. Storage temperatures above 25 °C will cause an increase of the color number.

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).

Sokalan® PA 25 CL PN	Unit	Value
Concentration (dry content, ISO 3251, 0.25 g, 150 °C, 2 h)	%	approx. 49
Mean molar mass (Mw) (BASF method, GPC)	g/mol	approx. 4000
pH value (DIN 19268, 10% dry substance in dist. water)		approx. 3.5
Color APHA (EN 1557, 23 °C)		approx. 50
K value (ISO 1628-1, 1% dry substance in dist. water, pH 7)		approx. 25
Viscosity (Brookfield, 23 °C)	mPa·s	approx. 600
Density (ASTM-D 1298, 23 °C)	g/cm ³	approx. 1.25
Water content (ASTM-D1744)	%	approx. 51
Solubility (visual, 23 °C, 10% dry substance in dist. water)		clear to slightly turbid
Calcium carbonate dispersion capacity (BASF method, pH 11, 60 °C)	mg CaCO ₃ /g dry substance	approx. 115
Calcium carbonate dispersion capacity (BASF method, pH 11, 23 °C)	mg CaCO ₃ /g dry substance	approx. 165
Pour point (DIN ISO 3016)	°C	approx. - 10

Application

Scale inhibitor for cleaner formulations, dispersing agent for organic and inorganic solids.

Safety

We are not aware of any ill effect that can result from using Sokalan® PA 25 CL PN 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 25 CL PN 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.

Labelling

Details about the classification and labelling of our products and further advice on safe handling are contained in the current safety data sheets.

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