

Sokalan[®] PA 20

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in many countries.

Polyacrylic acid, Na-salt.

Chemical nature	Polyacrylic acid, Na-salt.
PRD-No.*	30042860 * BASF's commercial product numbers.
Appearance	Sokalan® PA 20 is a clear, colorless till yellowish liquid at room temperature.



Handling and Storage

Handling

- Sokalan® PA 20 should be stored in a dry place in its original sealed packaging. It is recommended to store Sokalan® PA 20 at temperatures between +5 °C and +30 °C.
- Sokalan® PA 20 can slightly separate during the storage time. The product must be homogenized before it is processed. It must be mixed sufficiently prior to use.
- The storage temperature must be between min. +5 °C and max. +30 °C. Storage temperatures above +30 °C will cause an increase of the color number. At low temperatures (approx. +5 °C) Sokalan® PA 20 could form crystals and becomes solid. Drums or IBCs containing solidified product or liquid that have begun to precipitate or separate should be reconstituted by gentle heating, preferably in a heating cabinet. Warming up to max. 30 °C allows the product to become liquid again. 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.
- Sokalan® PA 20 must be protected from sunlight and high temperatures to avoid discoloration and the formation of surface films.
- Sokalan® PA 20 must be blanketed with nitrogen if it is stored, to prevent air contact. Air contact can cause discoloration.
- 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:

- 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)
- HDPE – high density polyethylene
- LDPE – low density polyethylene

It is not recommended to store Sokalan® PA 20 in plain carbon steel, because this would cause significant discoloration of the product within a short period of time.

Shelf life

Sokalan® PA 20 has a shelf life of at least 18 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).

Sokalan® PA 20	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. 2500
pH value (DIN 19268, 10% dry substance in distilled water)		approx. 8
Color APHA (EN 1557, 25 °C)		approx. 100
K value (ISO 1628-1, 1% dry substance in distilled water)		approx. 20
Viscosity (EN 12092, Brookfield, 25 °C, as is)	mPa·s	approx. 400
Density (DIN 51757, method 3, 25 °C)	g/cm ³	approx. 1.32
Water content (= 100%-concentration (dry content))	%	approx. 55
Solubility (visual, 23 °C, 10% dry substance in distilled 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

Application

Sokalan® PA 20 can be used as scale inhibitor in process water circulations and other technical processes, dispersing agent for organic and inorganic solids.

Safety

We are not aware of any ill effect that can result from using Sokalan® PA 20 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 20 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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February 2017