

Conolan CP 120

Spin finish for soft-touch PP BCF

Chemical composition

Combination of polyglycol compounds and antistatic agents.

Chemical data

Aspect	bright yellow, clear-cloudy, liquid
Ionicity	nonionic-anionic
Active matter	approx. 80 %
Density (20 °C)	approx. 1.12 g/ml
Refractive index (20 °C)	approx. 1.447
Viscosity (20 °C)	approx. 75 mPas
pH-value (10 %)	approx. 7

Storage conditions

12 months if properly stored.
Stir well before use!

The product becomes turbid at temperatures below 0 °C and solid below -20 °C.
After influence of coldness e.g. during transport; the product should be stored at a temperature of approx. 25 °C for several days.
After thorough stirring, it will be fully efficient again.

Application guidelines

Conolan CP 120 is a spin finish suitable for the production of soft-touch PP-BCF carpet yarns and can be used in neat oil- or solution application.

Due to the excellent wetting properties, this spin finish shows a high affinity to the fiber, resulting in an even distribution on the yarn.

Highly thermostable lubricants contribute to very low deposits on godets, which are easy to remove and nearly no smoke. This, together with the good yarn/bundle cohesion, ensures good running properties in yarn production and aftertreatment processes.

With most of the common types of polymers no gasfading could be found when using Conolan CP 120, but we recommend to do a gasfading test before using.
Our application laboratory is always at your disposal to do such a test.

The above results have been obtained from trials in our laboratory and plant. In the light of changing conditions they can serve only as a guide and are therefore offered without obligation. We ask you to observe the possible rights of third parties.

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Conolan CP 120 is applied to the yarn neat oil or as an aqueous solution (solution concentration max. 25 %) by means of the usual application devices.

In order to prepare a spin finish solution, stir the spin finish in demineralised water which is pre-heated at 20 - 25 °C. Keep stirring until fully emulsified.

For the protection of the application solution against the attack of mould and bacteria, we recommend to use a bactericide in the spin finish emulsion.

It is better to add the bactericide to the water first during stirring, before preparing the spin finish emulsion as described above.

Furthermore, we recommend to do a compatibility test before use. Suitable types and / or suppliers of bactericides are given on request.

For preparing a spin finish solution, only demineralized water should be used. It should be free of silicic acid and should have a water hardness of less than 0.5 °dH (= 0.63 °e (English) = 0.89 °f (French) = 8.90 °US (US-American) = 0.09 mmol/l Earth Alkali Ion concentration). The conductivity should be less than 0.5 µS/cm.

Recommended oil pick-up: 0.8 - 0.9 %

The oil pick-up on fibre is usually determined by extraction.

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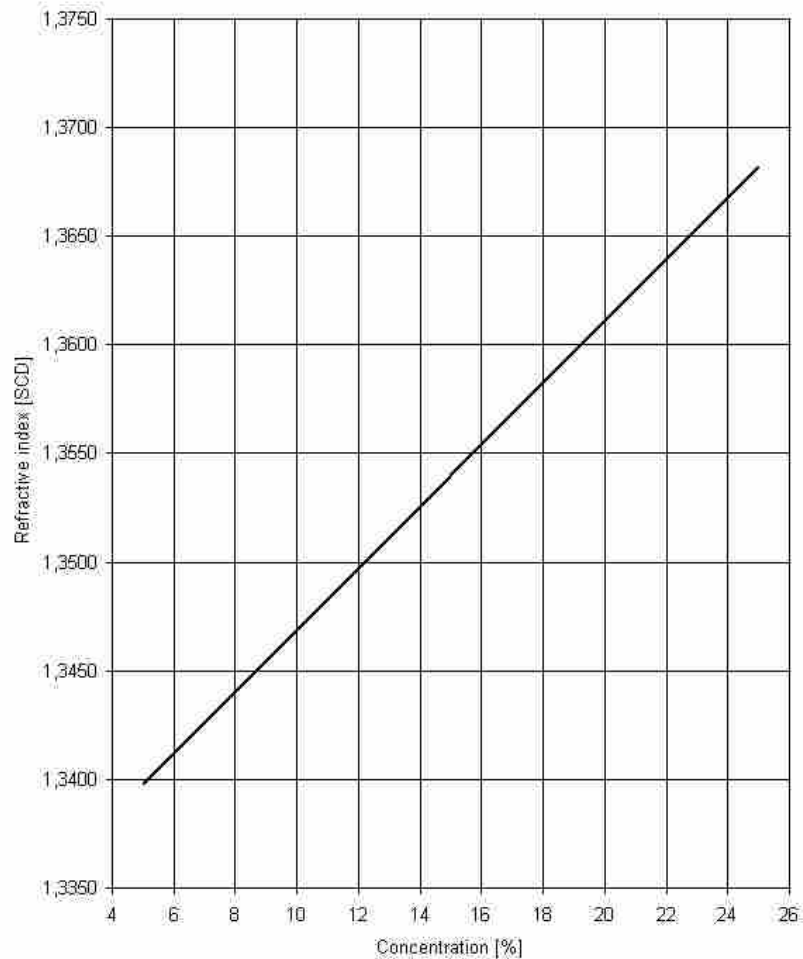
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Refractive Index vs. Concentration

Measuring instrument:

Abbe Refractometer

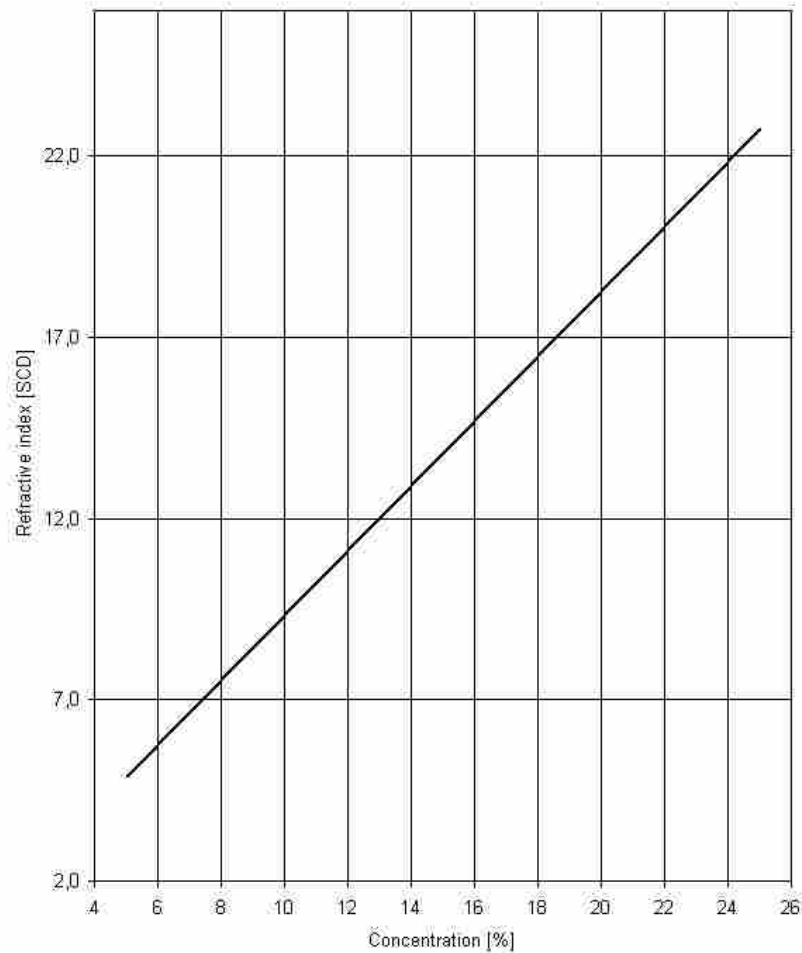
Temperature: 20°C

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Refractive Index vs. Concentration

Measuring instrument:

Krüss Handrefractometer

Temperature: 20°C

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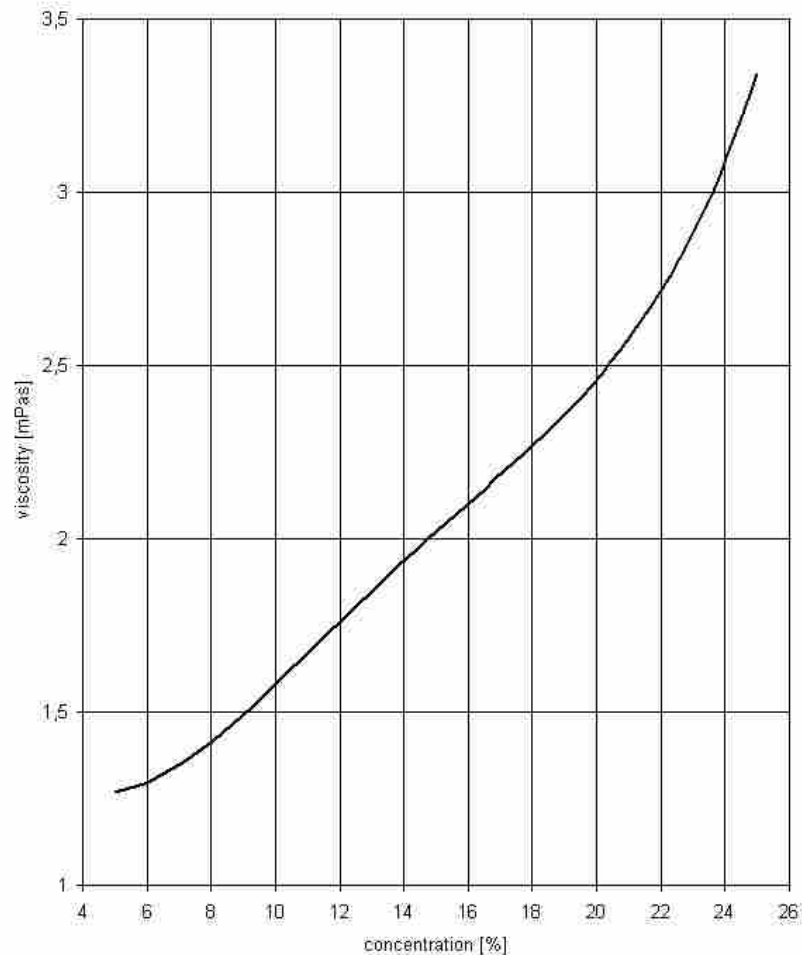



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Viscosity vs. Concentration

Measuring instrument:

Ubbelohde Viscosimeter

Temperature: 20 °C

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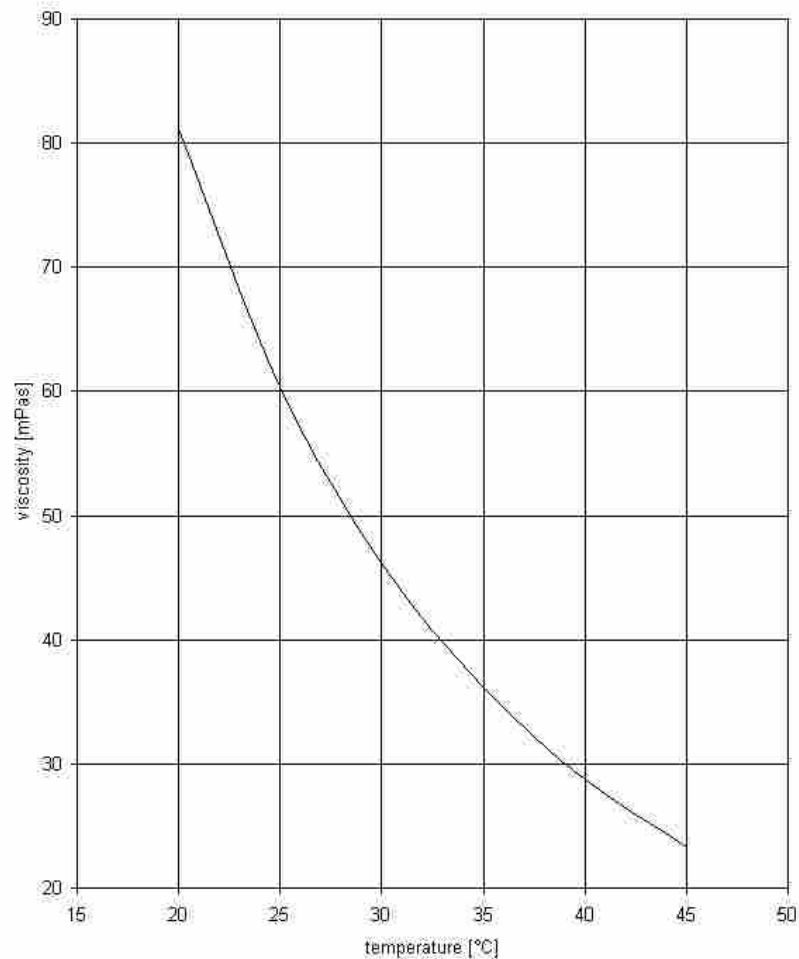


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Viscosity vs. Temperature

Measuring instrument:
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