

® PRISULON BOG 10

Characterization	Thickening agent for burnt-out printing (on PES/cellulose)
Supplied Form	Beige-brown powder
Chemical Structure	Polysaccharide ether
Ionic Character	Anionic
pH Value	9.5 - 13.1 (50g/l)
Stock Concentration	9 - 10 %
Stability	PRISULON BOG 10 is stable to the chemicals, anionic and non-ionic auxiliaries commonly used in burnt-out printing with disperse dyes. The use in combination with aluminium sulphate is not recommended. The pastes tend to gelification.
Storage	In a cool and dry place in well closed, original containers. If the product is stored at temperatures exceeding 30 °C, an accelerated decrease in viscosity may occur. We recommend not to exceed a storage time of 12 months.

The above given values are product describing data. Please consult the 'delivery specification' for binding product specifications. Further data about product properties, toxicological, ecological data as well as data relevant to safety can be found in the safety data sheet.

Properties

Filterability

PRISULON BOG 10 stands out due to its very high purity which enables printing on long yardages without intermediate cleaning of the screens. In order to ensure a printing process without any disruptions in general, we recommend to strain the ready print pastes before the printing process through finer screen meshes than those applied later.

Rheology / Printing Properties

PRISULON BOG 10 results in long-flowing printing pastes with good printability and penetration. Defined prints result the cellulose share of which can easily be removed during the afterwashing process.

Colour Yield

The dye transfer of multicoloured burnt-out from the print paste films to the fibre material during the fixing process is very good. There is no dulling of shades even with light colours.

® = registered trade mark

Properties of Thickener Film / Ease of Removal

PRISULON BOG 10 dries to a flexible and soft print paste film on the printed substrate. This film does not tend to break off and can easily be removed in a normal washing-off process.

Preservation

PRISULON BOG 10 contains a protective preservative. The stability of the stock thickenings is good. If a longer stability is required, under special working conditions or adverse climatic influences, it is advisable to use additionally one of the common preserving agents. Tests for dyestuff compatibility should be carried out following the recommendations of the dyestuff manufacturers.

Application Procedure

Preparation of Stock Thickening

91 - 90 %	Water
9 - 10 %	PRISULON BOG 10
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100 %	Stock Thickening

- Prepare cold or warm water
- While stirring constantly, sprinkle in PRISULON BOG 10 at a fast but controlled rate. It is not advisable to dissolve PRISULON BOG 10 with alcohols according to the pre-dispersion method because under this condition PRISULON BOG 10 swells extremely slowly.
- Continue stirring for 10 - 20 minutes
- Maximum viscosity is attained after a swelling time of 60 - 120 min depending on the water temperature and the effectiveness of the stirrer.
- After briefly stirring up again the stock, it will be sufficiently homogeneous and ready for use.
- Never add powder to completely swollen stocks.

The common auxiliaries and acid additions should only be added to the stock after a preceding swelling time of 60 min. **Especially the addition of acid to the solution (presharpened solution) results in a considerably reduced swelling of PRISULON BOG 10 which can be seen by residues in the screen.** Optimum purity of PRISULON BOG 10 is only achieved, if the stock thickening is allowed to swell for at least 2 hours without any further additions.

Textile Substrates

PRISULON BOG 10 is a special thickener for the burn-out printing on PES/cellulose blends with or without disperse dyestuffs. It has proven to be specially suitable for blended fabric where the PES share is a multifilament which tends to get green after the burn-out process.

Dyestuff Classes

PRISULON BOG 10 is exclusively appropriated for printing with disperse dyes. Recipe recommendations have to be in accordance with the indications given by the dyestuff manufacturers. We do not recommend applying other dyestuff classes.

Printing Process

PRISULON BOG 10 is suitable for direct printing on rotative and flat bed printing machines.

Recommendation for Use

Recipe recommendation

x g	Water
39 g	PRISULON BOG 10
80 g	Glycerine
20 g	RAPIDOPRINT TM 2
150 g	Sodium bisulphate
y g	possibly dyestuff
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1000 g	total amount

We reserve the right to modify the product and technical leaflet.

Our department for applied technique is always at your service for further information and advice.

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

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