

Textan 3

>>> Tannic acid Textan 3 Product data-sheet

Textan 3 is a high molecular weight hydrolysable tannin specially purified for textile applications. This high purity grade is especially suitable for back tanning applications.

Textan 3 is a 100 % natural material extracted from renewable plant materials using dedicated strictly controlled production facilities. No added preservatives or additives are used in the production of Textan 3.

>>> PROPERTIES^(*)

▪ Delivery form:	light yellow granular powder, free of visible impurities
▪ Odour:	slight in solution, typical tannic acid.
▪ Assay (on dry material):	min. 96 %
▪ Moisture	max. 7.0 %
▪ Density	0.30 – 0.45 g/cm ³
▪ pH (1 % in water)	3.0 – 4.0
▪ Solubility in water	clear
▪ Colour Gardner (1:10; alcohol)	max. 6
▪ Staining test:	pass

^(*) Only selected data is represented here, for a full set of specifications we refer to our **Specifications** sheet.

>>> USAGE

Textan 3 provides particularly good properties in wash-fastness anti-staining applications on dyed polyamide 6.6. It can also be used on other materials dyed with acid dyestuffs (i.e. PA 6). Chlorine fastness also improves, but a higher degree of protection is obtained with Tanex ASP.

Maximum Textan 3 uptake on Polyamide 6.6 is achieved at pH = 3-3.5. pH can be adjusted with acetic acid; if water with high levels of alkaline is used formic acid is sometimes required. In such conditions we advice to add some solid organic acids such as oxalic or tartaric acid to the Textan 3 solution.

High concentrations of dissolved iron or copper will cause the formations of dark coloured tannic acid-metal complexes, and should therefore be avoided. Even small amounts of iron in the ppm range will already cause a marked coloration of the treatment liquors. This discoloration does not negatively influence the fabric but can lead to a darkening of the colour.

Depending on the application Textan 3 can be used as such - i.e. anti-staining applications – or in a full backtan system to improve wash fastness.

Typical Textan 3 dosage levels are 0.5 - 3 % owf. Exact dosage levels are dependant on the end application, titter of the fibre and type of required protection. For more detailed information regarding we refer to the specific **Technical Leaflet** on this subject.

To prevent local over-dosage Textan 3 is best added as a 5-10 % solution. Due to its granular form Textan 3 easily dissolves in cold water or even better in hot water (e.g. 60°C). Solutions up to 50 % (m/V) can be prepared. However such solutions are highly viscous and are especially at lower temperatures difficult to handle.

As tannic acid concentration increases shelf life of these solutions increases: 1 % (m/V) solution should be used within the same day, 5-10 % solution can be stored for 1 week at room temperature, and 30 % solutions can be used for several months, assuming no micro-biological contamination has occurred.

>>> STORAGE AND HANDLING

Textan 3 does not require special storage conditions and has a shelf life of min. 5 years if stored in a dry area in its original closed packaging. The product is not frost sensitive and normal ambient temperatures (i.e. 5-25°C) suffice.

Prolonged exposure of Textan 3 to light can cause a gradual colour shift. This does not influence technical performance of the product unless colour is a critical parameter in the application. Storage of Textan 3 open to the atmosphere can result in moisture uptake from the surroundings. Therefore reseal the inner plastic bag and keep the lid on the fibre drum if Textan 3 is not in use.

Due to its granular form Textan 3 produces little or no dust during handling.

>>> PACKAGING

Textan 3 is available as a spray-dried granular product in 25 kg fibre drums lined with an inner polyethylene bag.

>>> FURTHER INFORMATION

Further safety information is provided in our **Material Safety Data Sheet**.

Upon simple request a controlled copy of our **Specifications** can be provided by our QC-department.

Information on usage and applications can be found in our **Application Fact Sheets**. Our R&D department can provide you further detailed information on composition and regulatory status.

Deliveries are accompanied by a **Certificate of Analysis**.

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EINECS/ELINCS:	215-753-2

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