

Textan 3SP

>>> Tannic Acid Textan 3SP Product data-sheet

Textan 3SP is a blended medium molecular weight hydrolysable tannic acid specially purified for textile applications. This grade can be used for electrostatic flock activation or chlorine fastness improvement or anti-staining applications in carpet or swimwear applications. Textan 3SP is a general-purpose grade used in flock applications such as upholstery, garments, etc...on medium to dark colour shades. It insures long lasting flock activation and imparts excellent handling properties. Compared to Floctan 3 Textan 3SP is considerably paler in colour shade.

Textan 3SP is a 100 % natural material extracted from renewable plant materials using strictly controlled production facilities.



>>> PROPERTIES^(*)

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|-----------------------------------|--|
| ▪ Delivery form: | pale yellow brown powder, free of visible impurities |
| ▪ Purity (on dry material): | min. 93 % |
| ▪ Moisture: | max. 7 % |
| ▪ Density: | 0.35 – 0.45 g/cm ³ |
| ▪ pH (1 % in water): | 2.5 – 3.5 |
| ▪ Colour Gardner (1:10; alcohol): | max. 6 |
| ▪ Solubility in H ₂ O: | clear |
| ▪ Staining test: | pass |

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

USAGE

For flock applications typical dosage levels are 1-1.5 % omf. For more information regarding flock activation recipes we refer to the specific Application Fact Sheets on this subject.

Anti-staining applications require dosage levels of 0.25 - 1.0 % (m/m) relative to the nylon fraction of the substrate.

To improve chlorine fastness typical dosage levels of 0.5 – 1.5 % (m/m) Textan 3SP relative to the polyamide fraction of the substrate are used.

Care should be taken when considering using Textan 3SP in combination with other anti-staining agents as negative interactions can occur. Therefore careful evaluation prior to industrial application should be conducted.

Maximum Textan 3SP 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. Textan 3SP should not be used in alkaline conditions. Lower pH-value also accelerate uptake of Textan 3SP by the fiber.

To prevent local over-dosage Textan 3SP is best added to as a 5-10 % solution. Due to its granular form Textan 3SP easily dissolves in cold water or even better in hot water (e.g. 60°C). Solutions up to 50 % (m/V) can be prepared, but are highly viscous.

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

High concentrations of dissolved iron or copper will cause the formations of respectively dark blue or brown tannic acid-metal complexes, and should therefore be avoided.

>>> STORAGE AND HANDLING

Textan 3SP 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. It is not frost sensitive and normal ambient temperatures (i.e. 5-25°C) suffice.

Prolonged exposure of Textan 3SP 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 3SP 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 3SP is not in use.

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

>>> PACKAGING

Textan 3SP 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 **Technical Leaflets**. Our R&D department can provide you further detailed information on composition and regulatory status.

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

CAS Nr.: 1401-55-4

EINECS/ELINCS: 215-753-2

The information provided in this product data sheet is based on the present state of our knowledge. Some of the applications mentioned in this document are protected by patent law. Ajinomoto OmniChem nv/sa cannot be held responsible for patent law infringements and the customer should contact the patent holder if so required. Due to the many process parameters involved we are not able to submit a general recommendation. It only shows without liability on our part the uses to which our products can be put. However, Ajinomoto OmniChem nv/sa cannot be held responsible for the consequences of the application of the above described product.