

Floctan 3

>>> Tannic Acid Floctan 3 Product data-sheet



Floctan 3 is a low molecular weight hydrolysable tannic acid specially purified for textile applications. This grade is used worldwide for electrostatic flock activation.

Floctan 3 is a 100 % natural material extracted from renewable plant materials using dedicated strictly controlled production facilities. No preservatives or additives are used to produce Floctan 3.

>>> PROPERTIES^(*)

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|-----------------------------------|--|
| ▪ Appearance: | yellow brown granular powder, free of visible impurities |
| ▪ Odour: | slight in solution, typical tannic acid. |
| ▪ Purity (on dry material): | min. 93 % |
| ▪ Moisture: | max. 7.0 % |
| ▪ Density: | 0.35 – 0.45 g/cm ³ |
| ▪ Ash content: | max. 0.3 % |
| ▪ pH (1 % in water): | 2.5 – 3.5 |
| ▪ Colour Gardner (1:10; alcohol): | max. 13 |
| ▪ 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.

Floctan 3 is a general-purpose grade used in applications such as upholstery, garments, packaging materials, automotive parts, etc...on medium to dark colour shades. It insures long lasting flock activation. The activated flock has excellent handling properties.

>>> USAGE

Typical Floctan 3 dosage levels are 1-2 % omf. Exact dosage levels are dependant on end application, titter of the fibre and type and depth of the colour. More detailed information is provided in the specific **Application Fact Sheets** on this subject.

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

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

Maximum Floctan 3 uptake on Polyamide 6.6 is achieved at pH = 3-3.5. Due to its higher acidity Floctan 3 will require little or no additional acid to adjust pH in demineralised water systems. pH can be adjusted with acetic

acid; if water with high levels of alkaline is used formic acid is sometimes required. Tartaric acid can be used to improve yellowing stability. Floctan 3 should not be used in alkaline conditions.

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. 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 electrostatic properties of the flock but can lead to a darkening of the colour.

It is not recommended to use of metal chelating agents in the activation bath to remedy excessive amounts of dissolved iron because these agents can interfere with the normal flock activation process.

>>> STORAGE AND HANDLING

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

Prolonged exposure of Floctan 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 Floctan 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 Floctan 3 is not in use.

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

>>> PACKAGING

Floctan 3 is available as a spray-dried granular product in 25 kg or 100 lbs. 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.