

Floctan 3 NF

>>> Tannic Acid Floctan 3 NF Product data-sheet



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

To produce Floctan 3 NF - a 100 % natural material extracted from renewable plant materials in a dedicated strictly controlled production plant – no synthetic preservatives or additives are used.

>>> PROPERTIES^(*)

- Appearance: yellow brown granular powder, free of visible impurities
- Purity (on dry material): min. 94 %
- Moisture: max. 7.0 %
- Density: 0.35 – 0.45 g/cm³
- Ash content: max. 0.3 %
- pH (1 % in water): 2.5 – 3.5
- Colour Gardner (1:10; alcohol): max. 11
- Solubility in H₂O: clear

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

Floctan 3 NF is a general-purpose grade with improved colour compared to the Floctan 3 that is 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 NF dosage levels are 1 - 1.5 % omf. Exact dosage levels are dependant on end application, titer 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 NF is best added as a 5 - 10 % (m/V) solution. Due to its granular form Floctan 3 NF 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.

As 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, provided no micro-biological contamination occurs.

Maximum Floctan 3 NF 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. Tartaric acid can be used to improve yellowing stability. Floctan 3 NF should not be used in alkaline conditions. Uptake rate is also higher at low pH.

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 NF has a min. shelf life of 5 years if stored in a dry area in its original closed packaging. No special storage conditions are required. It is not frost sensitive and normal ambient temperatures (i.e. 5-25°C) suffice.

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

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

>>> PACKAGING

Floctan 3 NF 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

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