

Floctan 1

>>> Tannic acid Floctan 1 Product data-sheet



Floctan 1 is a high molecular weight hydrolysable tannic acid specially purified for textile applications, with exceptionally low colour. This high purity grade was specially developed for electrostatic flock activation.

Floctan 1 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 Floctan 1.

>>> PROPERTIES^(*)

▪ Appearance:	light yellow granular powder, free of visible impurities
▪ Odour:	slight in solution, typical tannic acid.
▪ Purity (on dry material):	min. 98 %
▪ Moisture:	max. 7.0 %
▪ Density:	0.30 – 0.45 g/cm ³
▪ Ash content:	max. 0.3 %
▪ pH (1 % in water):	3 – 4
▪ 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.

Floctan 1 is used in high quality applications such as upholstery and automotive applications. It allows for long lasting flock activation requiring minimal usage levels. Floctan 1 can be used on white or off-white flock.

>>> USAGE

Typical Floctan 1 dosage levels are 1-2 % omf. Exact dosage levels are dependant on the end application, titer of the fibre and type and depth of the colour. For more detailed information regarding flock activation we refer to the specific **Application Fact Sheets** on this subject.

To prevent local over-dosage Floctan 1 is best added as a 5-10 % (m/V) solution. Due to its granular form Floctan 1 easily dissolves in cold water or even better in hot water (e.g. 60°C). Solutions up to 50 % (m/V) can be prepared.

As the 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 % (m/V) solutions can be used for several months, assuming no micro-biological contamination has occurred.

Maximum Floctan 1 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 1 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.

We advice against the use of metal chelating agents in the flock activation bath to remedy excessive amounts of dissolved iron because these agents can interfere with the normal flock activation process.

>>> STORAGE AND HANDLING

Floctan 1 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 1 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 1 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 1 is not in use.

Due to its granular form Floctan 1 produces little or no dust during handling.

>>> PACKAGING

Floctan 1 is a spray-dried granular product available 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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