

# AFLAMMIT® ASN

## Product information



### Flame retardant

### Product description / technical data

|                                   |                                                            |
|-----------------------------------|------------------------------------------------------------|
| <b>Chemical characterization:</b> | Flame retardant based on ammonium salts of inorganic acids |
| <b>Appearance:</b>                | Aqueous, clear liquid                                      |
| <b>Density:</b>                   | 1,22 - 1,24 g/cm <sup>3</sup>                              |
| <b>Solids content:</b>            | 41 - 45 %                                                  |
| <b>pH value:</b>                  | 6 - 8                                                      |
| <b>Solubility:</b>                | Dissolvable in cold water in any ratio                     |

### Product Benefits of AFLAMMIT® ASN

- Achieves a soft, comfortable handle on velvets, plush and similar pile fabrics.
- Is compatible with different binders; however, a pre-test should be made
- Fabrics treated with **AFLAMMIT® ASN** are classified as skin-compatible. The correspondent Pharmatox report might be presented on request.

### Application field/s

- **AFLAMMIT® ASN** is used for hardly inflammable treatment of all woven, knitted and non woven cellulosic fibres, their blends, as well with wool, synthetic bast (synthetic resins) and on fleece fabrics.
- Meets the requirements of the DIN 4102, class B 1 and is allowed according to the test certificate P-BWU03-I-16.5.148.
- Is preferably used on decoration fabrics of cellulose fibres and is especially applicable for hard wetting fabrics due to its good absorption capability.
- Is as well applicable for the post - impregnation of washed or dry-cleaned decoration articles by specialised companies.

### Processing

1. The required dry add-on of AFLAMMIT® ASN for the fulfilment of the DIN 4102, class B1, is approx. 165 g/kg for cellulose.

2. Textiles of cellulosic fibres - vertical test, for example DIN 54336

Liquor pick-up %  
70 - 100

g/l AFLAMMIT® ASN  
450 - 300

- The dry add-on should be between 10 and 14 %.

### 3. Wool fabrics

- Light fabrics: 230 - 275
- Heavy fabrics: 200 - 250
- The dry weight increase should be between 8 and 12 %.

#### 4. Finish acc. to US standard MVSS 302

- For the finish of cellulosic fibre materials for the automobile industry acc. to the conditions of the US standard MVSS 302 (horizontal test), approx. 2/3 of the quantities mentioned under 2. are applied.
- For materials with synthetic fibres, the application quantity has to be determined with pre-trials.

#### 5. Bath impregnation with spinning

- If decoration fabrics of cellulose fibres, wool or blends of these fibres have to be re-impregnated after they have been washed or dry-cleaned, 300 - 500 g/l **AFLAMMIT® ASN** are applied on the dry material.
- If it is processed wet-in-wet, e. g. after the washing, the fabric has to be spin-dried to a residual humidity of 60%. In this case, the application quantity has to be 400 - 500 g/l.
- In any case, the material has to be spin-dried to a residual quantity of 60 - 70% to avoid a dispersing of the liquor when drying.
- Drying can be effected on common drying plants at 100 - 130 °C or by air-drying.
- Calendaring is effected at 150 °C by iron or ironing machine.
- **AFLAMMIT® ASN** will be added to the prepared liquor. Processing is done at ambient temperature. For hard-wetting materials or extremely dense material, a wetting agent, e. g. **KYOLOX BAT**, can be added.

### Special Advice

- **AFLAMMIT® ASN** does not give water- and washing-proof finishing effects
- Bleached fabrics may only be treated free from chlorine with **AFLAMMIT® ASN**. Until now, colour has only changed rarely, however a previous examination should be made.
- Hardly inflammable treated decorations can lose the flame retardant effect at a longer use or it can be covered by dust. Therefore, from time to time (from experience after 2 years latest) they need to be cleaned and impregnated once again with **AFLAMMIT® ASN** (see under point 5).
- Materials treated with **AFLAMMIT® ASN** are not suitable for the permanent exposure to high temperature treatments, because under such conditions the underlying ammonium compound decomposes slowly and the nascent acid can damage the fibres.
- The product, resp. the material finished with this product, might eventually corrode metallic material resp. lead to corrosion. Therefore, pre-trials are necessary.

### Minimum shelf life / Storage / Packaging / Availability

|                              |                                                                     |
|------------------------------|---------------------------------------------------------------------|
| <b>Packaging:</b>            | PE drum: 30 kg / 150 kg; container: 1.200 kg                        |
| <b>Availability:</b>         | In den o. g. Verpackungen ab Lager Speyer lieferbar                 |
| <b>Minimum shelf life:</b>   | 24 months from production date                                      |
| <b>Handling and storage:</b> | Keep drum / container well closed. Store in a well-ventilated place |

Use textile auxiliaries safely. Before use always read the product safety information regarding e. g. classification, labelling, transport or environment.

Variations can occur in application and users are advised to conduct their own tests, especially to determine if the product is technically suitable for the intended purpose. Suggestions for use neither give nor imply any freedom from patent infringement. The information contained in the leaflet is intended to be of assistance to users but without guarantee.

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