

## fumion® FAA-3 shredded film

### General

*Polymer type:* fumion® FAA-3 polymer is based on an anion exchange ionomer.

Samples are identified by type and identification number (Lot Number). Please refer to this type and identification number in case of queries.

### Handling and Solution Preparation

fumion® FAA-3 ionomer consists of a polyaromatic polymer with quaternary ammonium functional groups (counter ion bromide). The ionomer is delivered in bromide form (Br<sup>-</sup> form) and may contain residual moisture.

Keep ionomer package closed / sealed when unused. Store and handle in a clean and dust-free area. Always wear protective gloves and safety goggles when handling the shredded film.

fumion® FAA-3 ionomer can be dissolved in alcohol such as methanol, ethanol, n-propanol by stirring at room temperature. Filtration is recommended after solution preparation. Admixture of water is possible.

If you have any concerns about storage, chemical stability and pretreatment before proceeding, please feel free to contact us for further information.

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## Physical and chemical data of fumion® FAA-3 shredded film

fumion® ionomer	unit	FAA-3
ionomer type		anion exchange material
polymer type		polyaromate
appearance		transparent brown, shredded film
ion exchange capacity (Cl <sup>-</sup> form)	meq g <sup>-1</sup>	1.7 – 2.2
functional group		quaternary ammonium group
counter ion		bromide (Br)
solubility		soluble in methanol, ethanol, n-propanol, N-methyl-pyrrolidone
moisture / residual solvent content <sup>a)</sup>	%	< 10
thermal stability / bromide form <sup>b)</sup>	°C	130 – 150
inherent viscosity <sup>c)</sup>	dL g <sup>-1</sup>	> 1.3
Version <sup>d)</sup>	2.1	Valid from August 20 <sup>th</sup> 2020

a) TGA 80 °C for 24 hrs

b) Br-form, TGA, heating rate 2 °C min<sup>-1</sup>

c) Br-form, c = 5 g L<sup>-1</sup>, T = 25 °C, solvent NMP, capillary Ic

d) Changes without prior notices may apply.

Note: The product is not certified for drinking water applications. The data are not measured directly on the item supplied. The data sheet does not release the customer of the necessity of a goods inwards control procedure. All information included in this data sheet is based on tests and data believed to be reliable. The data do not imply any warranty or performance guarantee. It is the user's responsibility to examine performance, suitability and durability of the product for the intended purpose. FUMATECH BWT GmbH does not assume any liability for patent infringement resulting from the use of this product. Fumion® is a trademark of company FUMATECH BWT GmbH.

Hereby, it is certified that all results of the measured item comply with the margins of the internal specification defined in the technical datasheet. All measurements and data recording are conducted in accordance with standardized procedures following the ISO 9001 certification.

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