

## Aquivion<sup>®</sup> D72-25BS perfluorosulfonic acid

Aquivion® D72-25BS is a perfluorosulfonic acid ionomer dispersion that exhibits an Equivalent Weight (EW) of 720 g/eq. Polymer concentration is 25 %w/w. Solvent system is >99 %w/w water and is free of ethers.

Aquivion® dispersions are based on the unique Short Side Chain copolymer of Tetrafluoroethylene (TFE) and Sulfonyl Fluoride Vinyl Ether (SFVE) F2C=CF-O-CF2CF2-SO2F produced by Syensqo. The ionomer dispersions contain its acid form (-SO3H) and are available in various EWs. Aquivion dispersions can be used by the customer to manufacture dispersions based on a variety of solvent blends.

These dispersions are suitable for electrode binder applications of electrochemical devices including fuel cells, electrolyzers and potentially Power to X electrochemical devices. Aquivion dispersions can also be used for the productions of membranes, supported or not by ePTFE or woven reinforcements.

Please visit Syensqo.com for more information.

General			
Material Status	<ul> <li>Commercial:</li> </ul>	Active	
Availability	<ul><li>Asia Pacific</li><li>Europe</li></ul>	North America	
Appearance	<ul> <li>Off-White</li> </ul>		
Forms	• Liquid		
Physical		Typical Value Unit	Test method
Density (20°C)		1.15 g/cm³	ASTM D1475
Equivalent Weight (EW) <sup>1</sup>		720 g/eq	Internal Method
HSE/Transport Classification		Corrosive	
Polymer Concentration		25 %w/w	
Solvent System		99 %w/w, free of ethers	
Total Acid Capacity		1.39 meq/g	Internal Method
Viscosity (25°C)		< 25 mPa·s	ASTM D2196
Flammability		Typical Value Unit	
Flammability - at ambient conditions		Non flammable	

## Additional Information

HEALTH, SAFETY AND ENVIRONMENT

Aquivion® dispersions are not harmful if used and handled according to standard processing
procedures (see for example the "Guide to the Safe Handling of Fluoropolymer Resins" issued by the
Society of the Plastics Industry). If handled improperly (e.g. overheating above 260°C (500°F) for an
extended period of time, the dispersions may release harmful toxic chemicals. By their chemical
properties Aquivion® dispersion grades are classified as hazardous materials subject to
transportation regulations (ADR, IATA, IMDG). Specifically, D72–25BS is corrosive(R–SO3H being a
strong acid, measured pH < 2). Please refer to corresponding Material Safety Data Sheets (SDS) for
more information on handling and safety.</li>

PACKAGING, SHIPMENT AND STORAGE

 Aquivion® D72-25BS is available in 5 and 69 kg or 5 and 60 liter containers. It is recommended to store the product at 5 - 50°C in a clean temperature-controlled and well ventilated environment, protected from direct sunlight and other sources of heat or irradiation. Containers should be kept tightly closed to avoid solvent evaporation.

## Notes

Typical properties: these are not to be construed as specifications. <sup>1</sup> eq = mol SO3H

## www.syensqo.com

Safety Data Sheets (SDS) are available by emailing us or contacting your sales representative. Always consult the appropriate SDS before using any of our products.

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