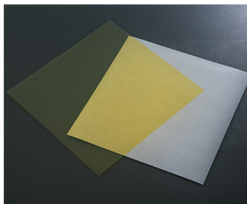




An Anion Exchange Membrane for Anion Exchange Membrane Water Electrolysis and Redox Flow Batteries

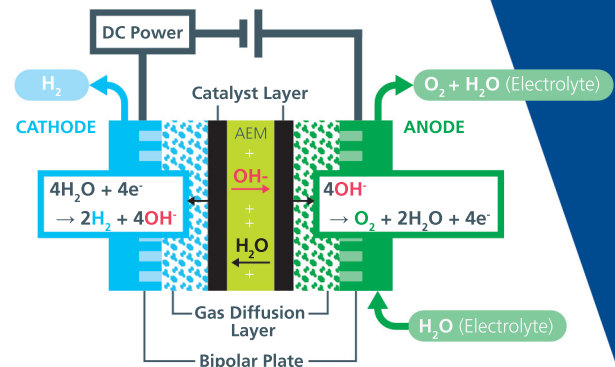


Features

- Anion options - AMVN, DSVN, AAVN, ASVN, AHO available for testing
- Available in various polymers and thicknesses
- High selectivity and low proton leakage
- Used as an AEM separator

Comparison between FORBLUE™ SELEMION and Conventional Ion Exchange Resin

Property	FORBLUE SELEMION	Conventional Resin
Feature	 Film-like membrane	 Stack of ionic particles with binder resin
Ion Transport Path	Amorphous phase of film	Connection of the ion exchange particles
Ion Selectivity	High	Low
Thickness	Thin	Thick
Resistance	Low	High
Strength	Tough	Brittle

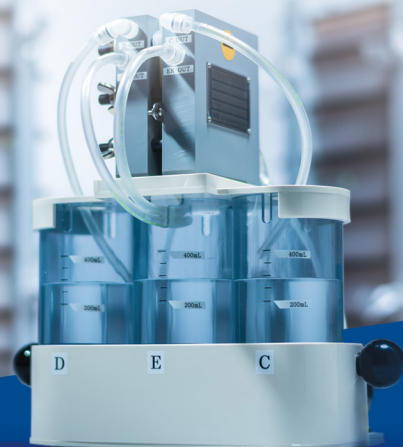


AEMWE Principle

Anion Exchange Membrane Water Electrolysis

Commercial FORBLUE™ SELEMION Grades

Property	AMVN	DSVN
Usage	CO ₂ reduction, Electrolysis	CO ₂ reduction, Electrolysis
Counter Ion & Transport Number	Cl > 0.95	Cl -
Thickness	100 μm	95 μm
Burst Strength	250 kPa	150 kPa
Resistance	2.0 Ωcm ²	1.1 Ωcm ²



Model shown: DW-Lab - test electrolyszer unit