

### CREATION THROUGH SEPARATION



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

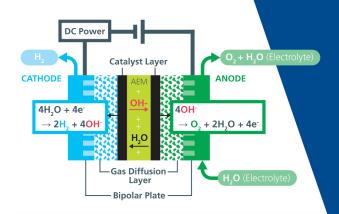


#### **Features**

- 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 <sub>2</sub> reduction, Electrolysis	CO <sub>2</sub> reduction, Electrolysis
Counter Ion & Transport Number	CI > 0.95	CI -
Thickness	100 μm	95 μm
Burst Strength	250 kPa	150 kPa
Resistance	2.0 Ωcm²	1.1 Ωcm²





Model shown: DW-Lab - test electrodialyzer unit

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