FORBLUE™ S-SERIES

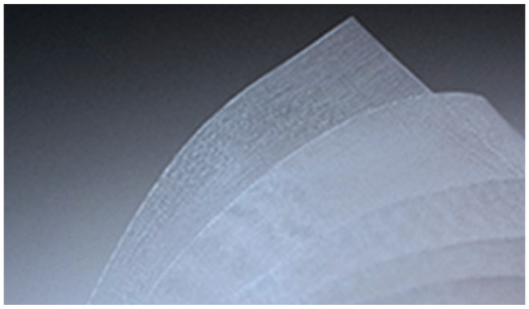
CREATION THROUGH SEPARATION

AGC

A Cation Exchange Membrane for Proton Exchange Membrane Water Electrolysis and Redox Flow Batteries

Features

- Sulfonic fluoropolymer single-layer membrane
- High chemical resistance
- High mechanical strength
- Can be reinforced by special PTFE fabric
- Easy to handle
- High ion exchange capacity
- Very low resistance with high ion selectivity



FORBLUE™ S-SERIES Grades

Property	Unit	Sx-2301DH	S-2301WN	Sx-1811WN	Sx-1831WN
Counter Ion		H^+	Na^+	Na^+	Na^+
Dry / wet		Dry	Wet	Wet	Wet
Thickness *1	μm	280	330	330	360
Ion Exchange Capacity	meq/g	1.0	1.0	1.1	1.25
Water Content (H^+ form) *2	wt%	35	35	55	100
Ion Transport Characteristics		High Selectivity	High Selectivity	Low Resistance	Low Resistance

*1 Thickness = Values are test data, without guarantee. DH data shows dry state thickness and WN data show wet state thickness.
*2 Moisture content of polymer item = Evaluated the value after replacing the counter ion to H^+ and immersion in water, 100°C, 1 hr.