

Activated Carbon

Application: Adsorption, Capacitive Deionization, Supercapacitors, etc.

MMAC001

Specific surface area (m²/g)	3266
Pore volume (cm³/g)	1.82
Average pore size (nm)	2.23
Particle size (D50, μm)	5.8
Density (g/cc)	0.365
Capacitance in the EMIMBF₄ (F/g)*	165
Capacitance in the KOH (F/g)[†]	367

*: This is measured in an EMIMBF₄ ionic solution at room temperature (25 °C). The potential window is between 0 V and 2.7 V vs. RHE. The scanning current is 1 A/g.

[†]: This is measured in a 6 mol/L KOH solution at room temperature (25 °C). The potential window is between 0 V and 0.9 V vs. RHE. The scanning current is 1 A/g.

MMAC001 Capacitive Performance

Current	Capacitance (F/g) in EMIMBF ₄	Current	Capacitance (F/g) in 6 M KOH
1 A g⁻¹	165	1 A g⁻¹	367
2 A g⁻¹	144	2 A g⁻¹	318
3 A g⁻¹	120.75	4 A g⁻¹	293.6
4 A g⁻¹	106	6 A g⁻¹	282
5 A g⁻¹	85.2	8 A g⁻¹	276
		10 A g⁻¹	270

Price: Contact us for a quotation.

Momentum Materials Solutions

MMAC002

Specific surface area (m²/g)	≥ 2000
Ash content (%)	≤ 0.5
Particle size (D50, μm)	5 ~ 8
Gravimetric capacitance in the organic electrolyte (F/g)*	≥ 130
Volumetric capacitance in the organic electrolyte (F/cc)*	≥ 45
Gravimetric capacitance in the inorganic electrolyte (1 A/g, F/g)[¶]	≥ 250
Volumetric capacitance in the inorganic electrolyte (1 A/g, F/cc)[¶]	≥ 80
Capacitance (5 A/g, F/g)[¶]	≥ 70
Capacitance (10 A/g, F/g)[¶]	≥ 180
Cyclic stability (100,000 cycles)[¶]	≥ 90%

*: This is measured in an EMIMBF₄ ionic solution at room temperature (25 °C). The potential window is between 0 V and 2.7 V vs. RHE. The scanning current is 1 A/g.

[¶]: This is measured in a 6 mol/L KOH solution at room temperature (25 °C). The potential window is between 0 V and 0.9 V vs. RHE. The scanning current (A/g) is specified in the table above.

Price: Contact us for a quotation.