



Advanced Carbon Materials for Li-ion Battery, Supercapacitor and Lead-acid Battery

Product Description

China Steel Chemical Corporation is a coal chemical treatment company in Taiwan, can make high performance Li-ion battery anodes and advanced carbon for supercapacitor and lead-acid battery from coal tar pitch. Green Mesophase Powders (GP-series) was manufactured from coal tar pitch via thermal treatment and unique chemical engineering processes, and then it can be further made Meso-Graphite Powders (MG-series) after carbonization and graphitization. Advanced Carbon (ACS-series) can be produced from coal tar pitch by activation processes, which is suitable for supercapacitor and lead-acid battery.

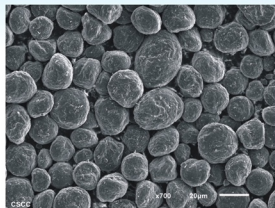
Product characteristics

A. Green Mesophase Powders

Series	D ₅₀ < 15μm	16 < D ₅₀ < 30μm		D ₅₀ > 35μm
Products	GP12	GP18	GP24	GP40
D ₅₀ (μm)	12±2	18±2	25±2	40±3
Fixed carbon (%)	≥90			
V.M. (%)	8±2			

B. Meso-Graphite series for power cells

Products	D ₅₀ (μm)	BET (m ² /g)	Tap D (g/cm ³)	True D (g/cm ³)	Capacity (mAh/g)
FMGP	11±2	≤2.2	≥1.20	≥2.15	≥320
MG11	11±2	≤2.2	≥1.25	≥2.20	≥345
MG11-A	10±3	≤3.0	≥0.95	≥2.20	≥345



C. Meso-Graphite series for high energy design

Products	D ₅₀ (μm)	BET (m ² /g)	Tap D (g/cm ³)	True D (g/cm ³)	Capacity (mAh/g)
MGP	21±3	≤1.4	≥1.35	≥2.18	≥330
MGP-A	21±3	≤1.7	≥1.30	≥2.18	≥330
MG12	18±3	≤1.5	≥1.30	≥2.20	≥350
MG13	20±3	≤1.7	≥1.30	≥2.20	≥355



D. Advanced Carbon series for supercapacitor and lead-acid battery

Products	BET (m ² /g)	D ₅₀ (μm)	Ash (%)	Moisture (%)	Capacitance (F/g)
ACS15	1500±200	6.5±1.5	≤1.0	≤3.0	≥100
ACS20	2000±200	6.5±1.5	≤1.0	≤3.0	≥130
ACS25	2500±200	6.5±1.5	≤1.0	≤3.0	≥140
HQ21	2000±200	6.5±1.5	≤0.3	≤3.0	≥130

