

Description of ACS-series

ACS-series are advanced carbon materials designed for EDLC, LIC and lead-carbon battery applications.

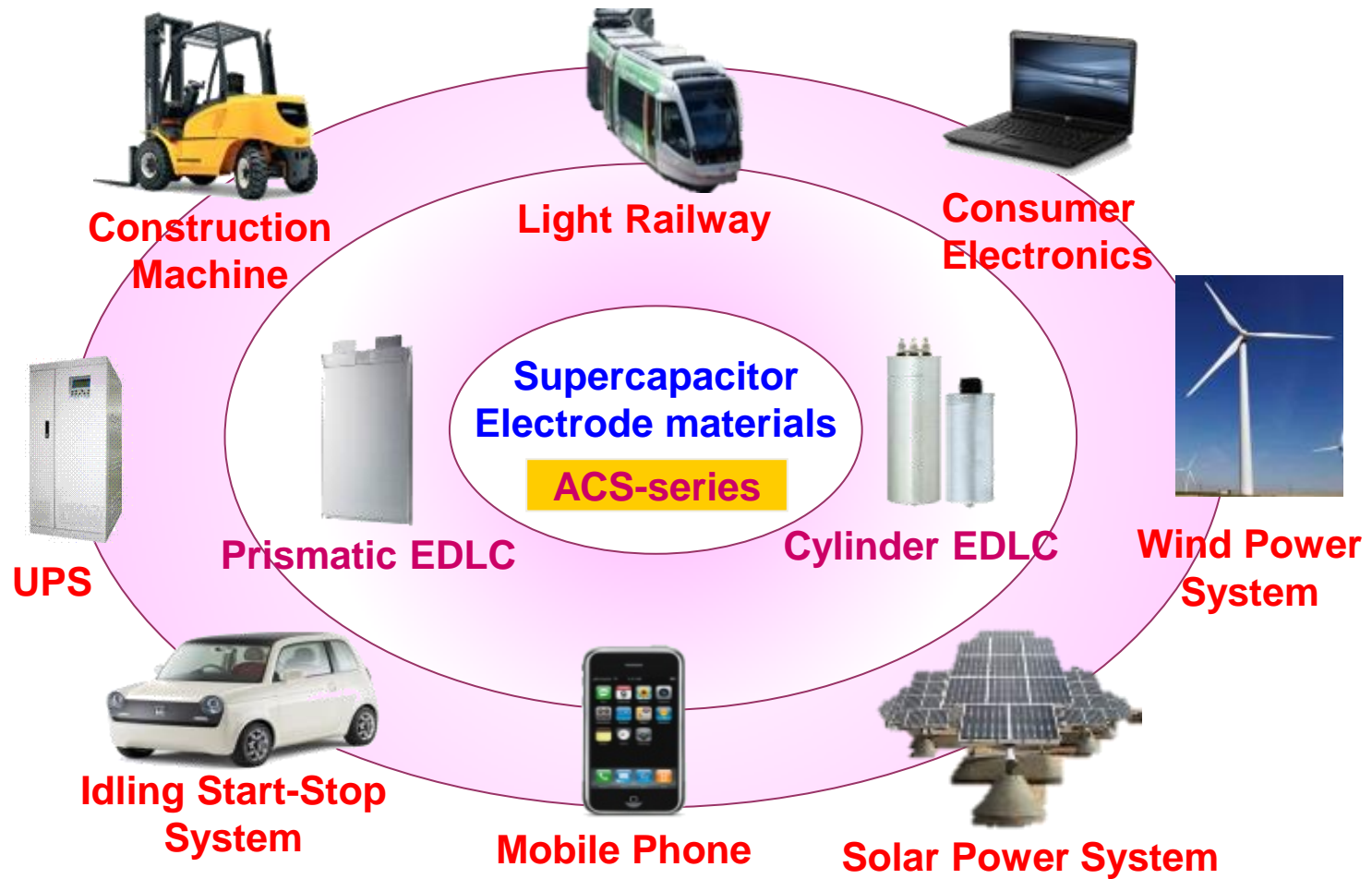
ACS-series offer High-Energy, High-Power and General Types to meet various EDLC/Battery design formulation.

The unique properties of ACS-series is :

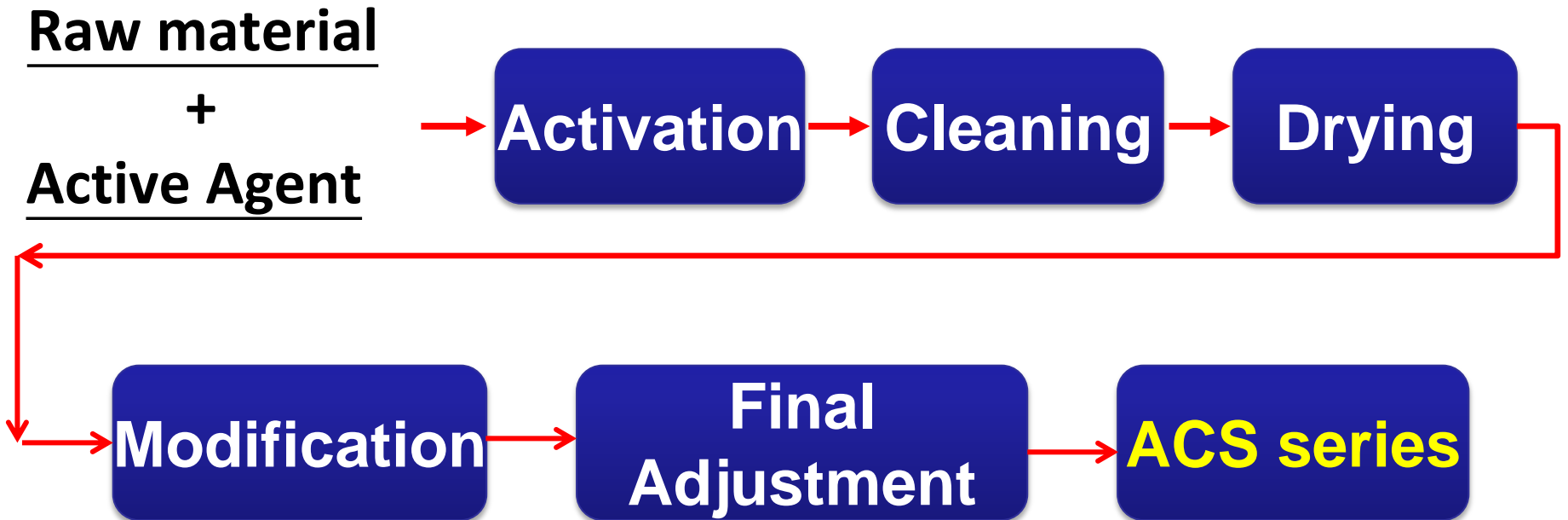
- **Leading in capacitance**
ACS-series provide high ratio of micropore (0.7~1.0nm) and high capacitance.
- **Lower ESR**
ACS-series provide high ratio of large pore (>1.0nm) and make lower resistance.
- **Better electrochemical performance**
After aging test, ACS-series maintain high capacitance and low ESR.

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EDLC Applications



Preparation of ACS-series

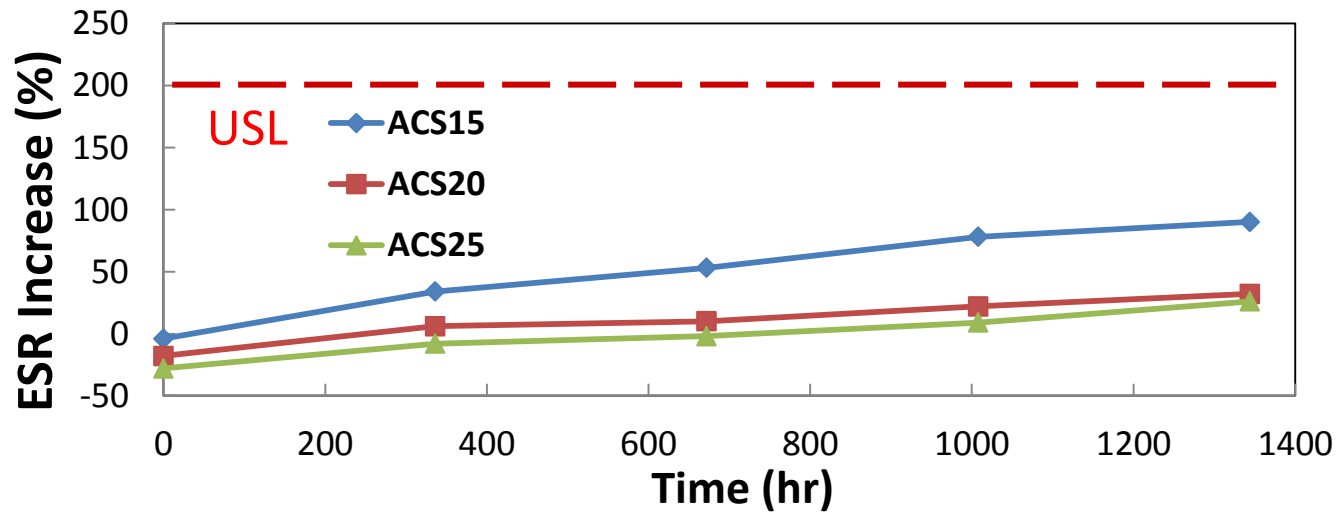
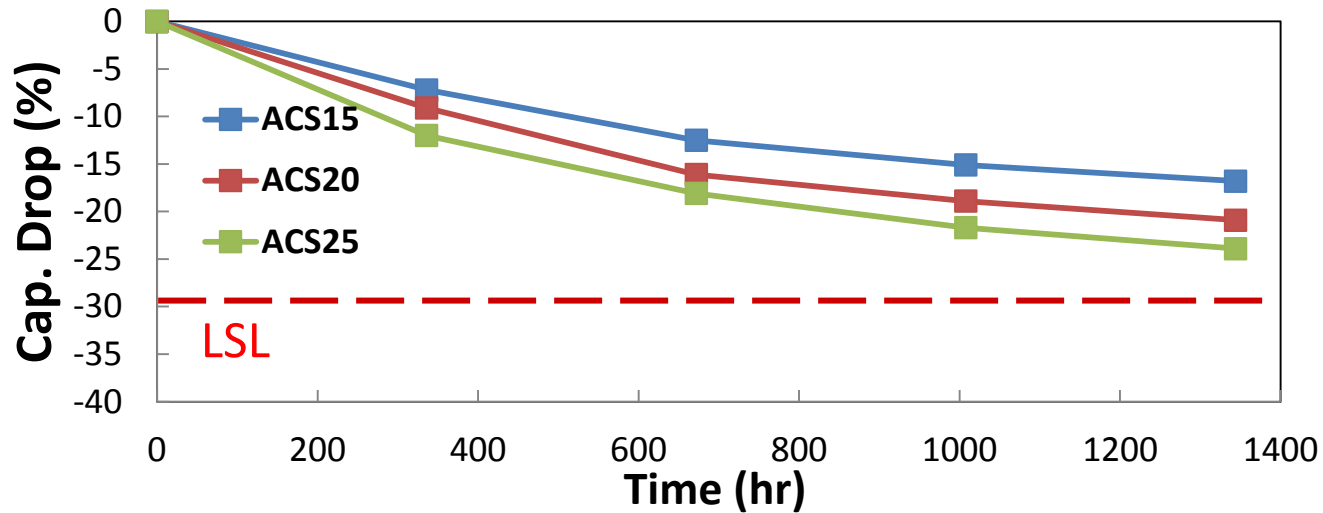


■ Stable & consistent quality.

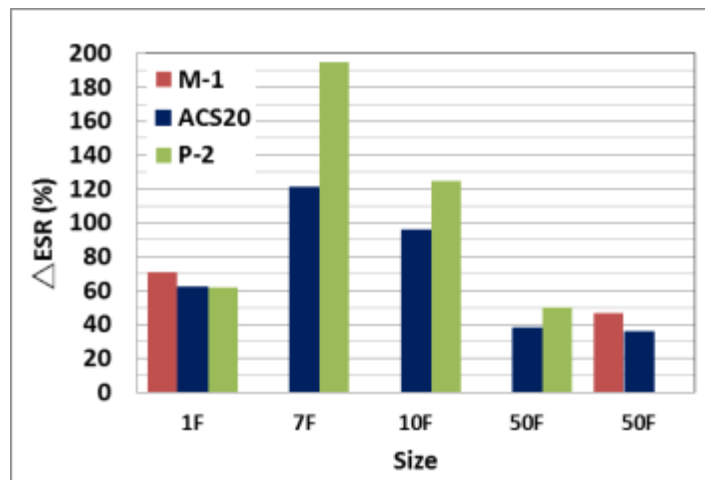
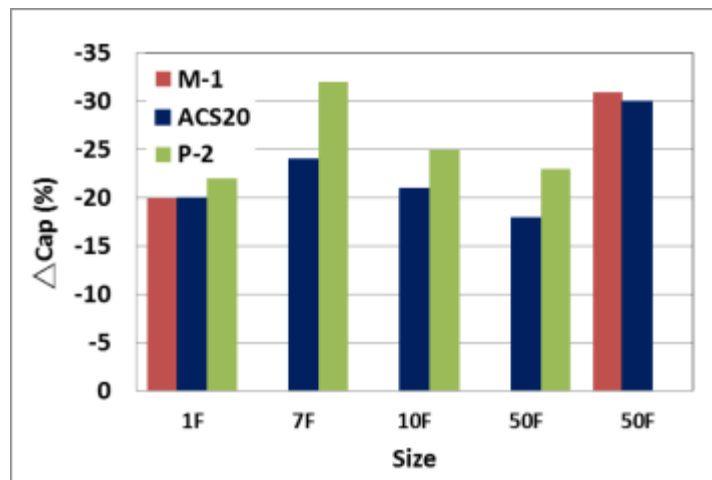
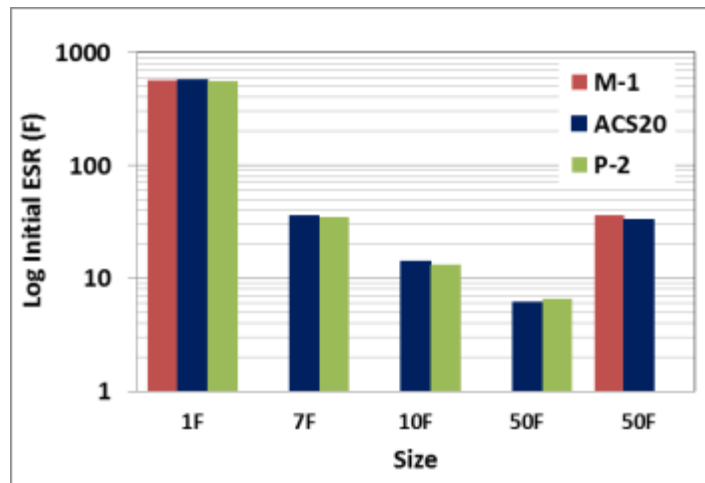
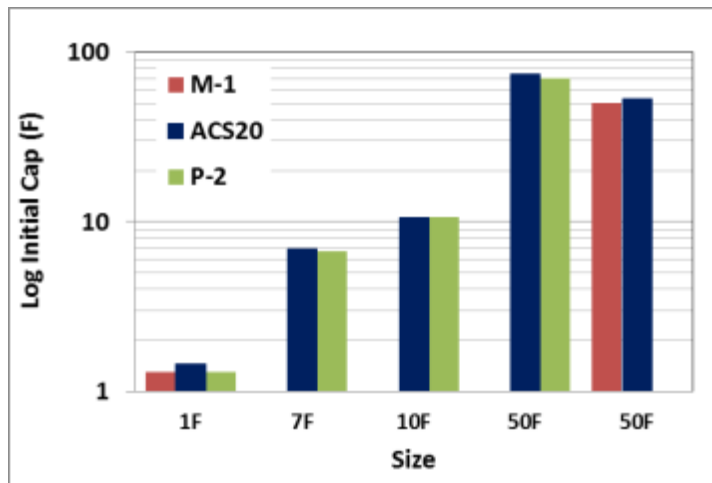
Specification of ACS-series

Spec. \ Items	ACS15	ACS20	ACS25
	General type	High-Energy type	High-Power type
Total Surface Area(m ² /g)	1500± 200	2150 ± 150	2500 ± 200
PSD, D ₅₀ (μm)	6.5 ± 1.5 (Adjustable)		
Moisture Content (%)	< 3.0		
Ash Content (%)	< 1.0		
Electrode Capacitance (F/g)	>110	> 130	>135

ACS-series Reliability Characteristics



Customer feedbacks



ACS20 delivers competitive electrochemical performance!

Customer Feedback

50F (18X40) Cylinder Supercapacitor Test

Aging test Items	Cap (F)	ESR (mΩ)	Height (mm)	Cap (F)	ESR (mΩ)	Height (mm)	Five days Self-Charge (Volt)
	Initial			Aging after 2000hrs			
ACS15	89.3	7.6	41.1	70.0	12.0	42.6	2.21
Coconut AC	63.3	7.0	41.1	53.0	10.4	42.6	2.22

Electrolyte: SBPBF₄/AN. Aging condition: 2.7V/70°C.

- The capacitance of ACS15 is 42% higher than Y-1.
- The Self-charge of ACS15 are in the same level with Y-1.
- ACS15 passed 2000hrs aging test.