

# SUPERCAPACITOR CARBON

## “ HCE 202 for Supercapacitor Applications ”

As the world shifts towards a cleaner, more sustainable future, the need for efficient energy storage solutions has become increasingly important. At Haycarb, we specialize in producing high-quality supercapacitor carbon from coconut shell charcoal with a strong focus on sustainability and environmentally-friendly production processes for use in supercapacitors and other energy storage applications.



Our supercapacitor carbon is produced using a proprietary technology that creates a unique pore structure, resulting in a high specific capacitance and low equivalent series resistance (ESR). This allows for faster charge and discharge times, as well as greater energy efficiency.

### TECHNICAL INFORMATION

Parameter	Specification
Surface Area (m <sup>2</sup> / g)	1750-1980
Particle Size D50(μm)	5-7
Ash(% bywt)	Max 0.06
Apparent Density (g/cc)	0.36-0.41
pH	6-8

Characteristics	Benefits
Large Surface Area	Higher Charge Storage Capacity
Optimum Particle Size and Shape	Higher Electrode Density
Unique Pore Size Distribution	Optimum Electrode Penetration
Low ESR due to Ultra-High Purity	High Discharge Efficiency
Controlled Functional Group	Lowest Gas Build Up and Increased Cycle Life



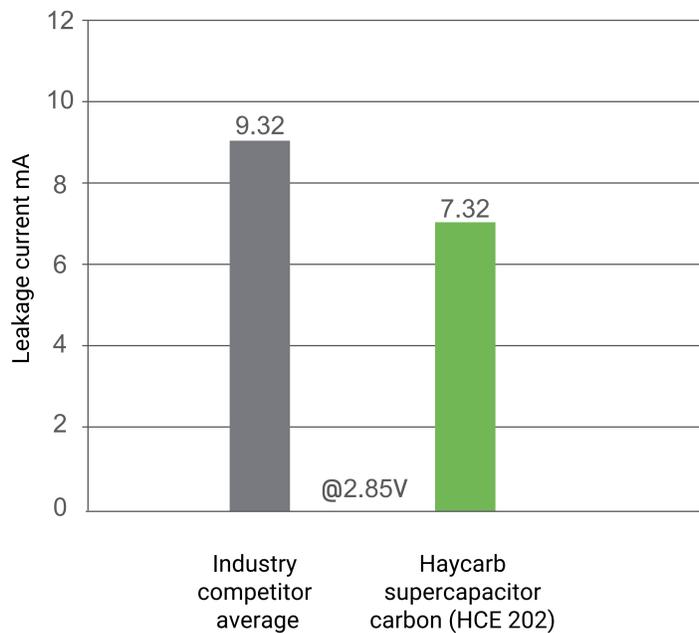
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**HAYCARB**  
Activated carbon solutions

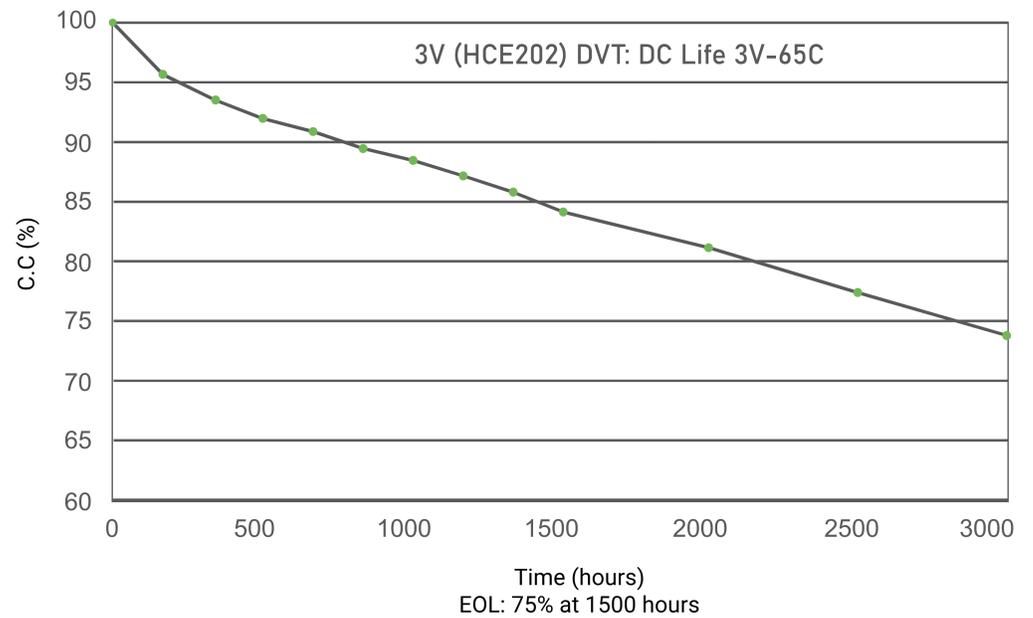
## Leakage current behaviour

Leakage currents of the cylindrical cells of 3200F produced by HCE 202 is lower compared to similar products in the market



## Cycle life

Lifetime tests at constant rated voltage of 3V and 65°C (accelerated ageing), shows superior stability even after 2000 hours of accelerated ageing when compared to reference carbon material



**PACKAGING:** Standard packaging is primarily designed to prevent the deterioration of accurately graded granules and to prevent the adsorption of moisture or atmospheric contaminants. Other packaging criteria can be accommodated upon request.

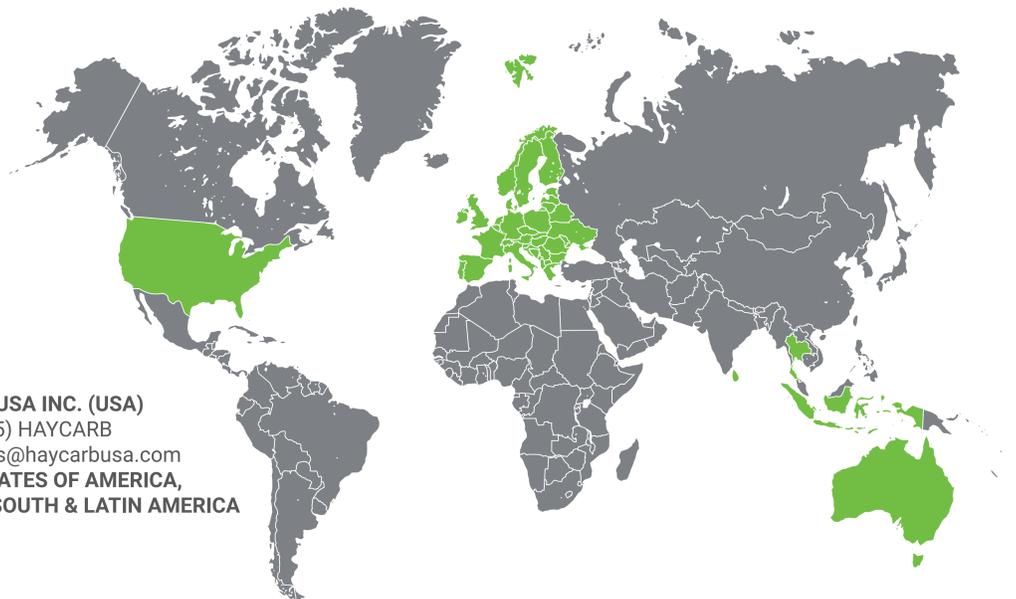
**BULK BAG**  
Net. 300 kg

**SACKS**  
Net. 10 kg



'ACTIVATE' Haycarb's ESG roadmap 2030

## CONTACT US



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