

# HAYCARB SUPERCAPACITOR CARBON (HCE202)

## POWERING A SUSTAINABLE FUTURE

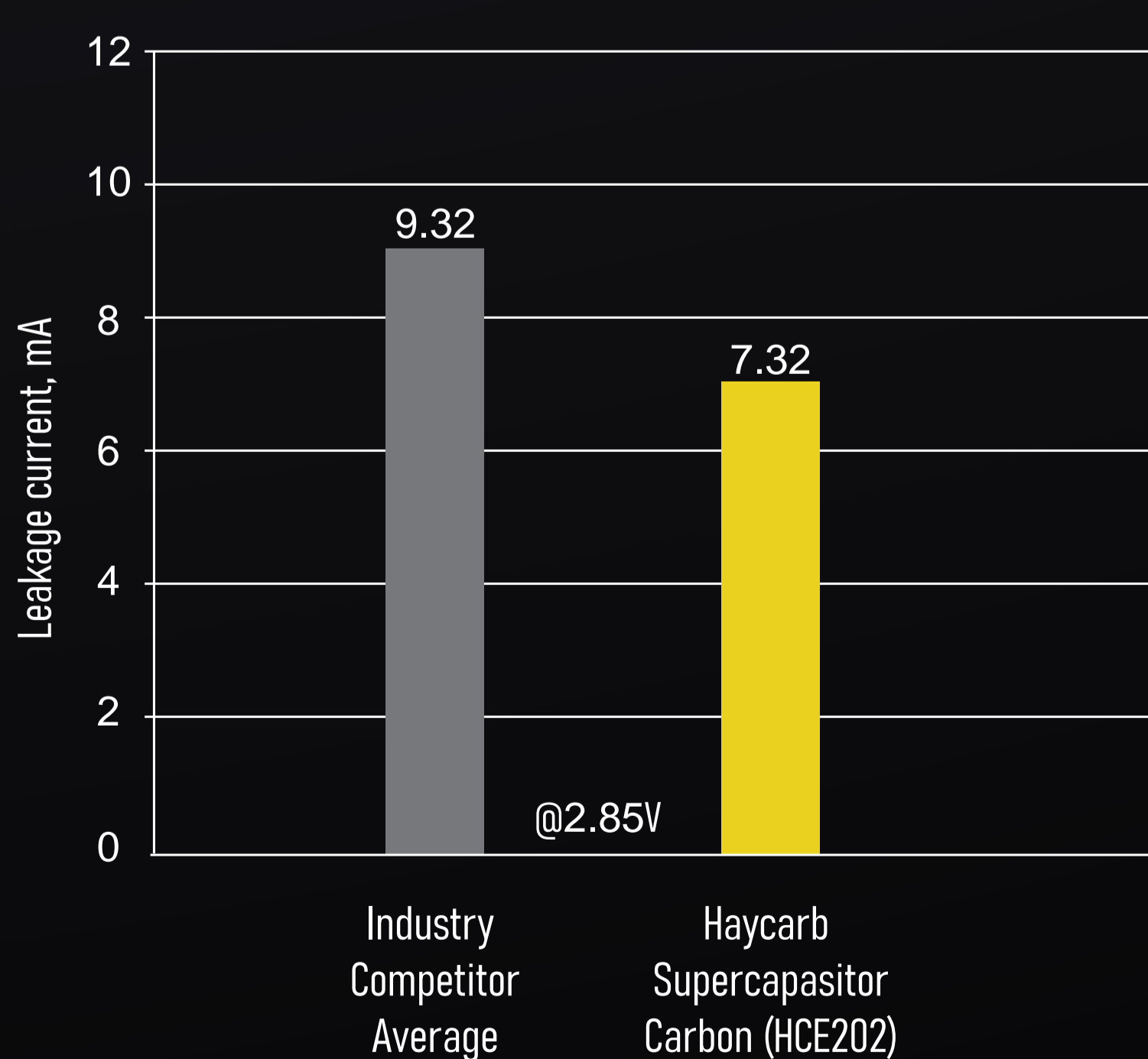
As the world shifts towards a cleaner, more sustainable future, the need for efficient energy storage solutions has become increasingly important. At Haycarb, we specialize in producing high-quality supercapacitor carbon from coconut shell charcoal with a strong focus on sustainability and environmentally-friendly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

PARAMETER	SPECIFICATION
Surface Area (m <sup>2</sup> /g)	1750-1980
Particle Size D <sub>50</sub> (μm)	5-7
Ash (% by wt)	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 Function Group	Lowest Gas Build Up and Increased Cycle Life

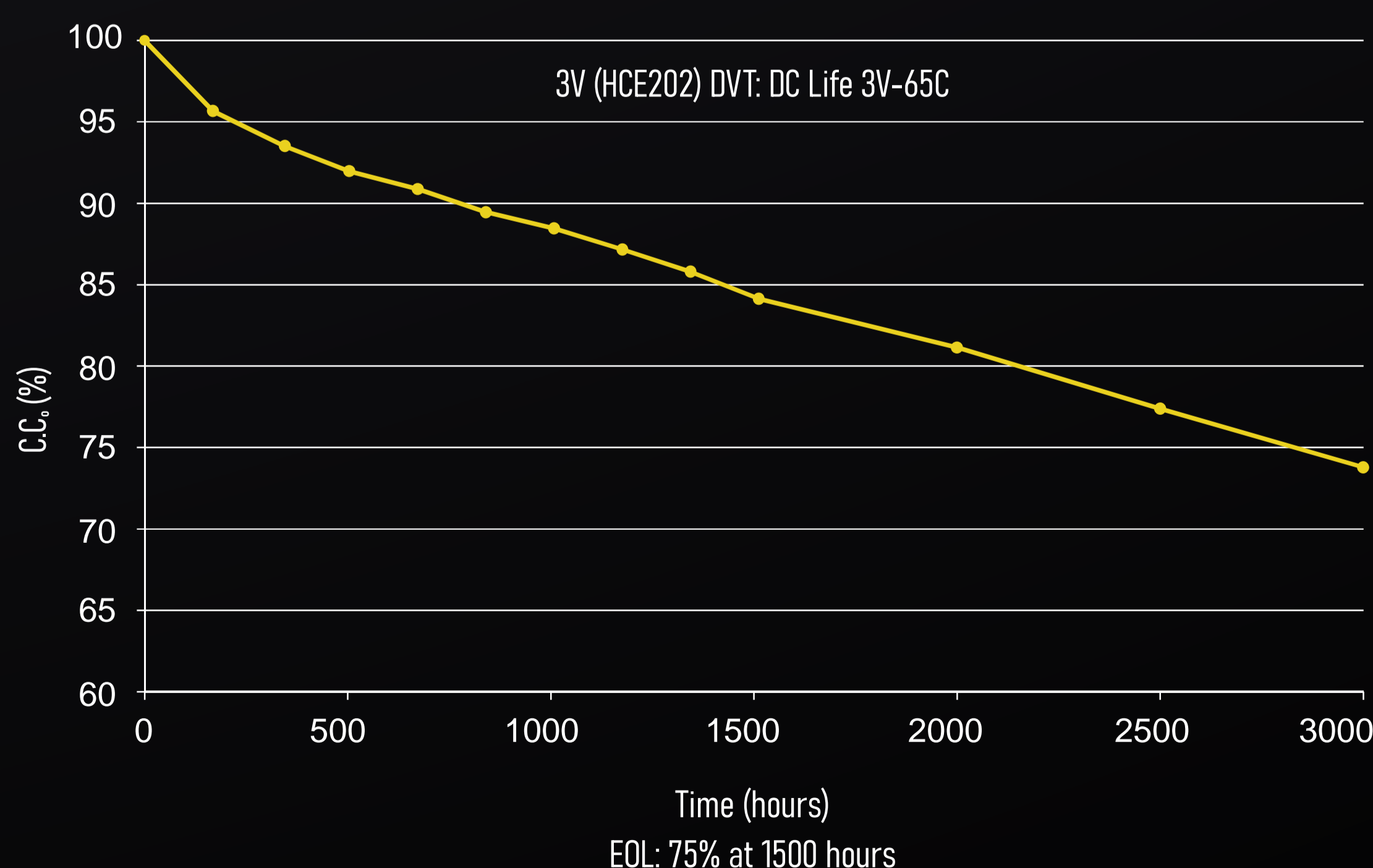
### LEAKAGE CURRENT BEHAVIOUR

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 aging), shows superior stability even after 2000 hours of accelerated aging when compared to reference carbon material.



### PACKAGING

Standard packaging is designed primarily to prevent deterioration of accurately graded granules and preclude the adsorption of moisture or atmospheric contaminants.







**HAYCARB**  
*Activated carbon solutions*



#### **WARRANTY DISCLAIMER**

Please confirm the specification of any particular grade with your representative prior to purchase. The user is responsible for ensuring that the product is correctly specified prior to purchase and Haycarb makes no express warranty as to suitability for specific application.

**Haycarb PLC** is a world's leading manufacturer and marketer of coconut shell activated carbon. Haycarb manufactures a complete range of standard, washed and impregnated granular activated carbon, powder activated carbon and extruded pellet activated carbon for a full spectrum of applications in Water Treatment, Air Treatment, Gold Recovery, Food and Beverage Industry, Energy Storage, and Specialty Applications.

#### **For more information contact us today!**

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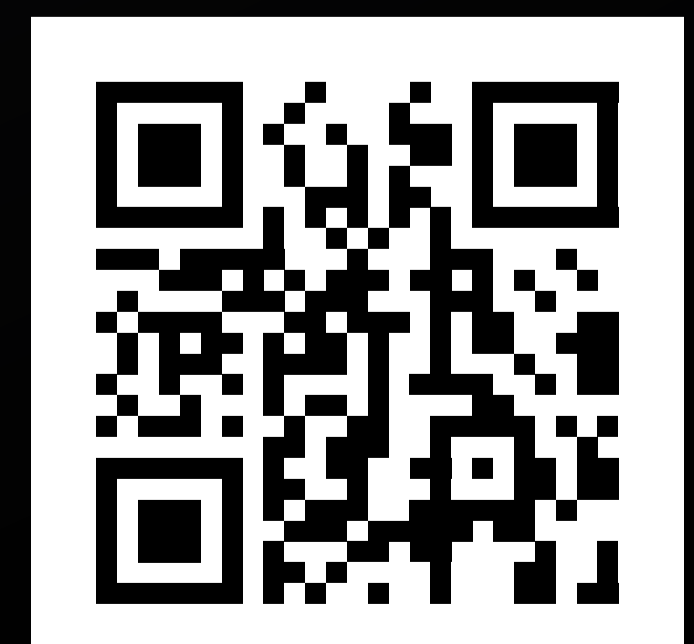
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