

**Carbon nano-onions:**

**Identification of the substance:**

Carbon nano onions (CNO) ≥99 %.

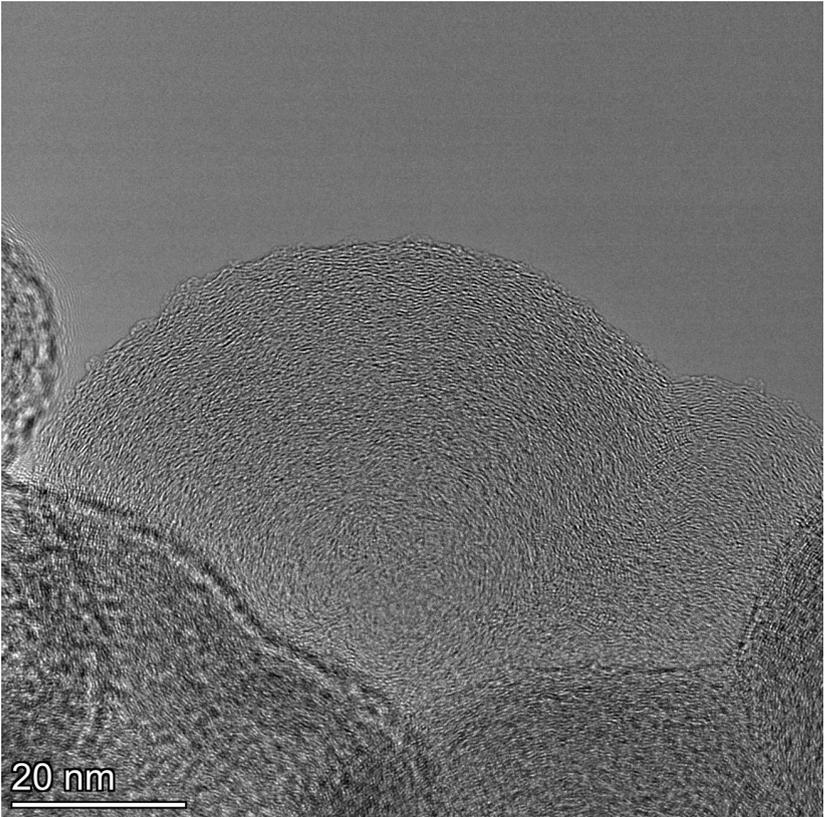
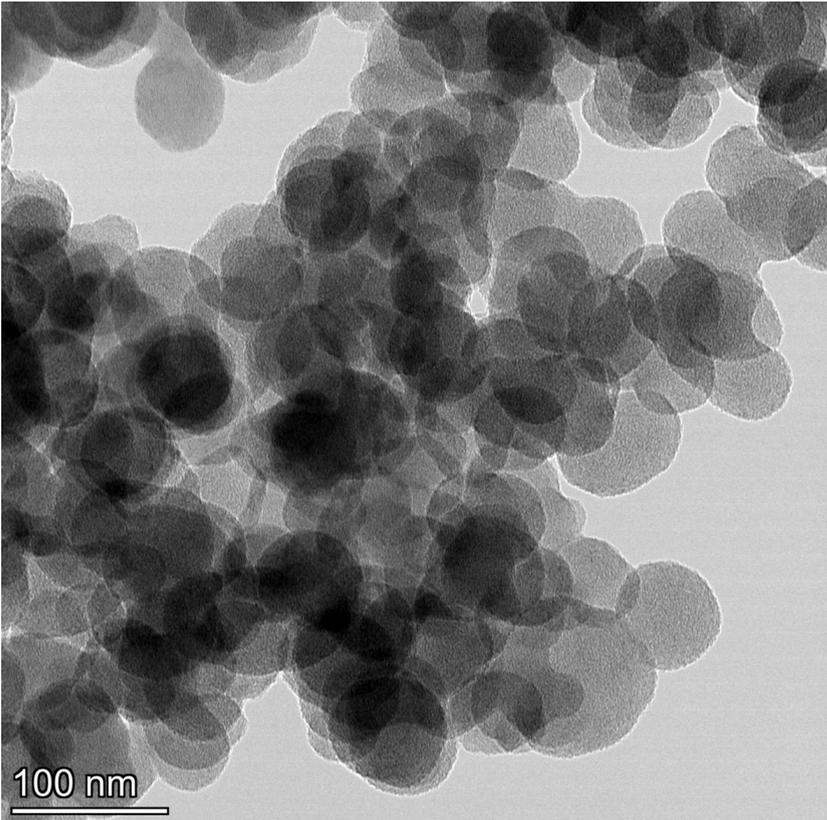
CNO consists of spherical and multilateral fullerenes close to each other. The distance between the graphitic layers is 0.335 nm, and it is approximately equal to the distance between two graphitic planes (0.334 nm).

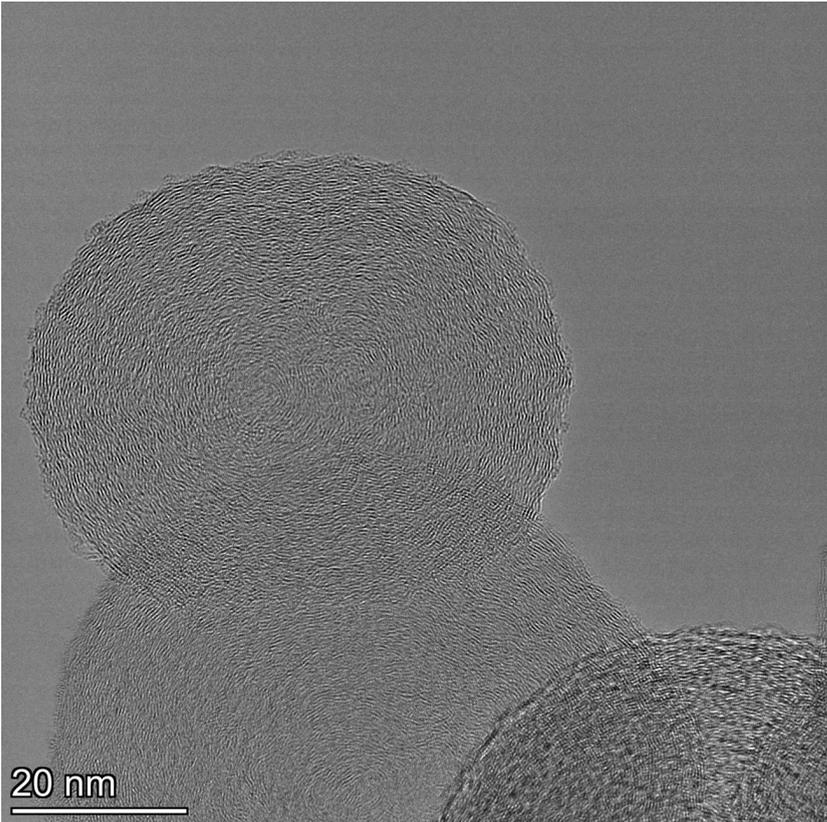
Black powder, particle size 30 – 60 nm. The spherical nature of the material leads to a unique ability to be dispersed in a variety of solvents.

**1.2 Technical Specifications:**

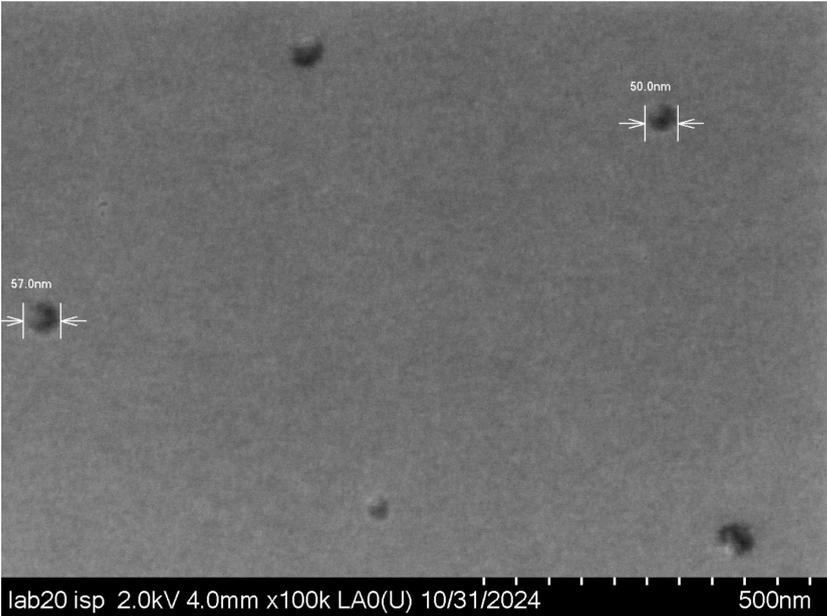
Characteristic	Test method	Value
SP2 Bonded Carbon	Raman	Detected
Structural Defects	Raman	Low defect density
Number of Layers	TEM	About 40 to 60 concentric spherical layers
Primary Particle Shape	SEM, TEM	Spherical (1-3 core)
Primary Particle Lateral Dimensions	TEM	d=30-60 nm
Specific surface area	BET	130 m <sup>2</sup> /g
Primary Particle Aspect Ratio	SEM	0,78-0,91
Purity	TGA2	Above 99.5%

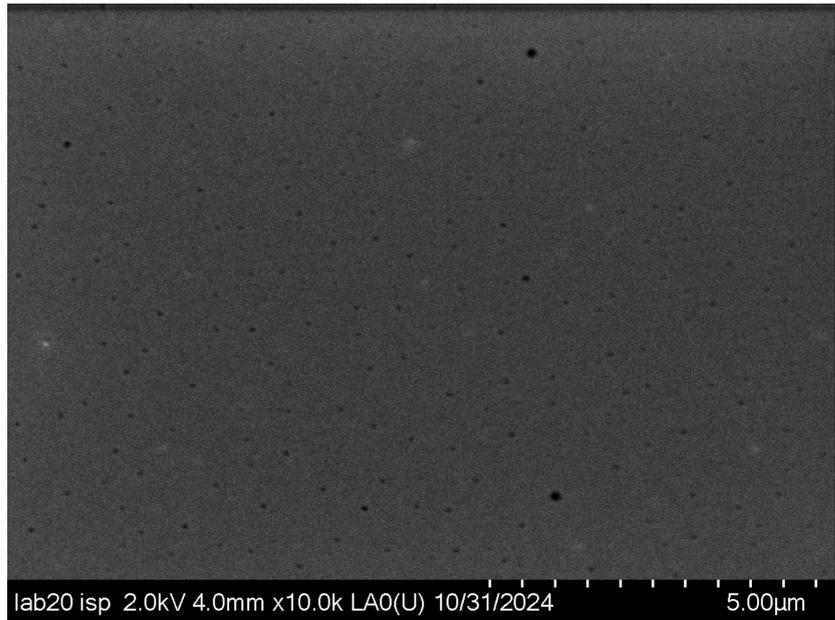
TEM



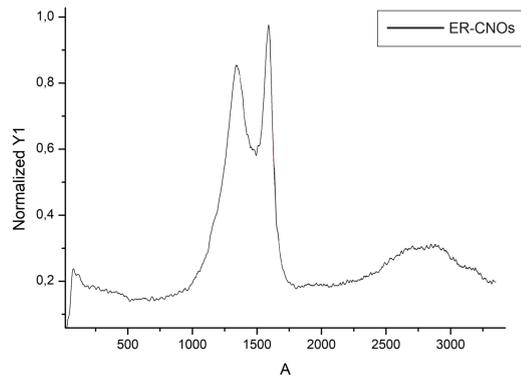


SEM

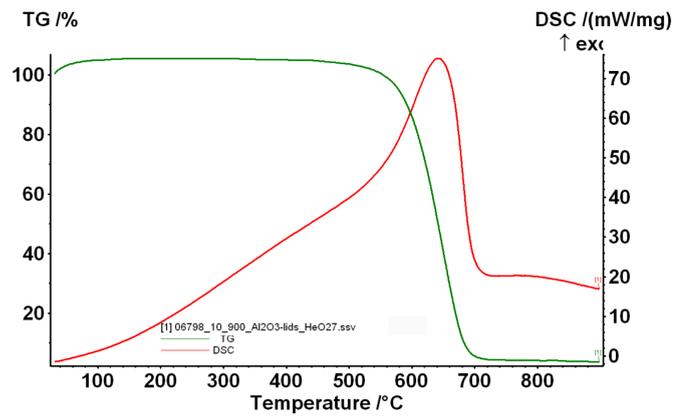




Raman (first phase)



TGA



1.4 Details of the supplier of the product data sheet

**PYROHGEN GROUP**

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Competent person responsible for the safety data sheet: Department Health, Safety and Environment

e-mail (competent person): [contact@pyrohgen.com](mailto:contact@pyrohgen.com)