

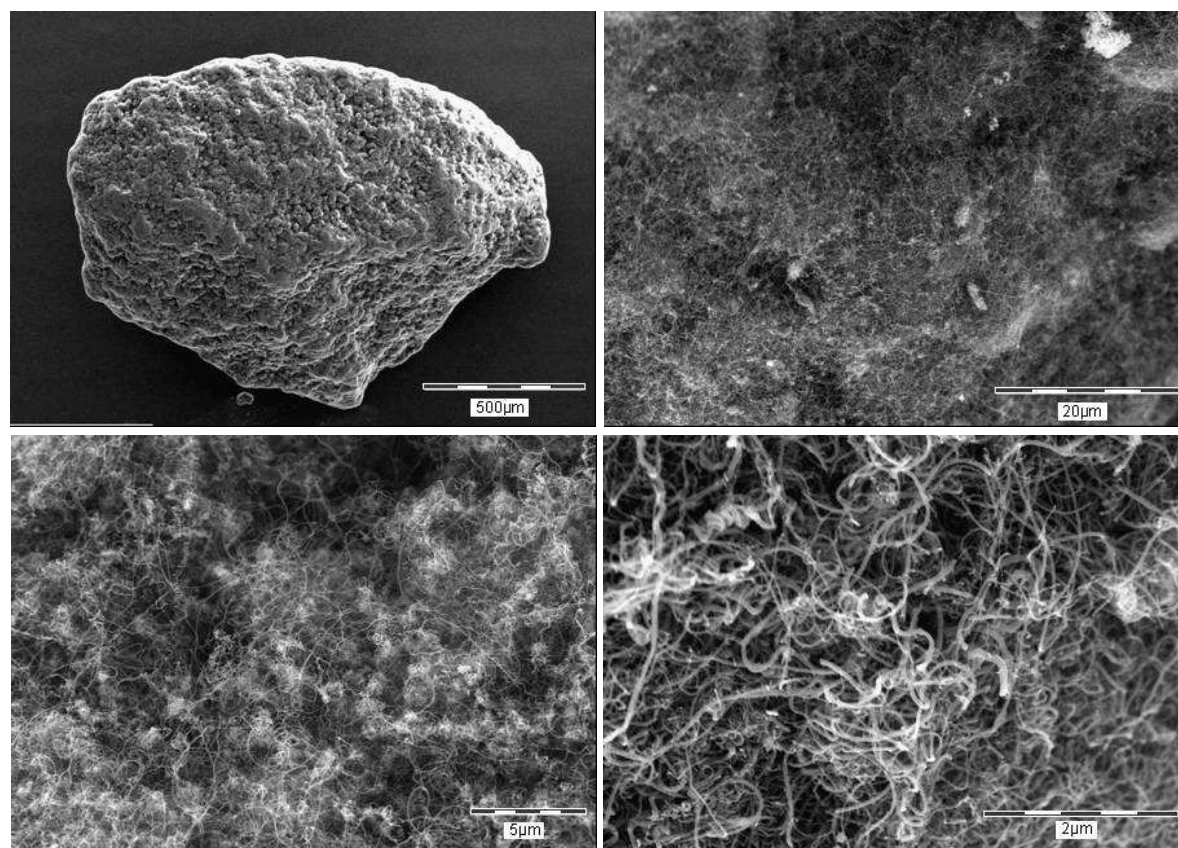
# BAYTUBES® C 150 P

## Agglomerate of Multi-Wall Carbon Nanotubes

### Product Information

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Baytubes® are agglomerates of multi-wall carbon nanotubes with low outer diameter, narrow diameter distribution and an ultra-high aspect ratio (length-to-diameter ratio). Baytubes® show excellent tensile strength and E-modulus, as well as exceptional thermal and electrical conductivity.



Representative picture of Baytubes®

Baytubes® are produced in a high-yield catalytic process based on chemical vapor deposition. The process yields easy to handle agglomerates with high bulk density. The optimized process results in a high degree of purity (low concentration of residual catalyst and absence of free amorphous carbon).

 **BAYTUBES® C 150 P****Typical values**

Property	Value	Unit	Method
C-Purity	≥95	wt%	Calculated or ashing
Free amorphous carbon	Not detectable	wt%	TEM
Outer mean diameter	~13	nm	TEM
Inner mean diameter	~4	nm	TEM
Length	>1	µm	SEM
Bulk density	130-150	kg/m <sup>3</sup>	EN ISO 60
Loose agglomerate size (>90wt%)	0.1-1	mm	PSD

**Length of Baytubes C150P after Dispersion:**

Depending on the polymer matrix and the dispersion employed the length of Baytubes C 150 P varies between 0,2 – 1µm (TEM analysis)

For specification see the Product Data Sheet

[www.baytubes.com](http://www.baytubes.com)  
[www.bayercoatings.com](http://www.bayercoatings.com)

**Disclaimer**

## Disclaimer for Development Products

This is a development product. Further information, including amended or supplementary data on hazards associated with its use, may be compiled in the future. For this reason no assurances are given as to type, conformity, processability, long-term performance, characteristics, or other production or application parameters. Therefore, the purchaser/user uses the product entirely at his own risk without having been given any warranty or guarantee, and agrees that the supplier shall not be liable for any damages, of whatever nature, arising out of such use. Commercialization and continued supply of this material are not assured. Its supply may be discontinued at any time.

**Test Values**

Unless specified to the contrary, the values given have been established to our best knowledge based on current production samples. The figures should be regarded as guide values only and not as binding minimum or maximum values. Under certain conditions, the properties can be affected to a considerable extent by further processing.

**Processing Note**

For incorporation of Baytubes® into polymers or other materials, the appropriate processing conditions of the corresponding polymers or materials have to be observed. Addition of Baytubes® into viscous materials may affect the viscosity. To preclude any risk to the health and well-being of people involved in the handling and processing of Baytubes®, tolerance limits for the work environment must be ensured by provision of efficient exhaust ventilation and fresh air at the workplace in accordance with the Baytubes® Safety Data Sheet. Application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility.

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