

Multi-walled Carbon Nanotubes [TC-2000]



OVERVIEW

Carbon nanotubes (CNTs) are attracting attention as next-generation functional materials due to their excellent conductivity, strength, and lightness, but their difficult dispersion (in polymer and solvent) has become a major issue. TC-2000 of TODA KOGYO is an innovative product which enables easy dispersion, controlling the CNTs physical property by our unique technologies.

FEATURES

Excellent dispersibility

By applying TODA KOGYO's CNTs shape control technology, it can achieve uniform dispersion in a short time, enabling high-concentration dispersion and reduction of dispersant usage.

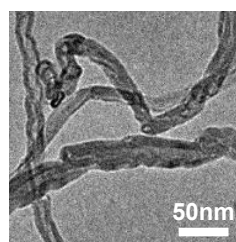
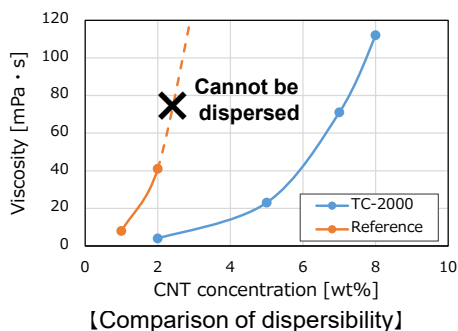
Physical property control technology

TODA KOGYO can control the tube diameter and crystallinity of CNTs and provide product that meet customer's needs by applying our catalyst manufacturing technology.

CHARACTERISTICS

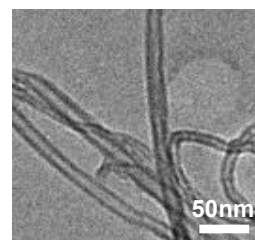
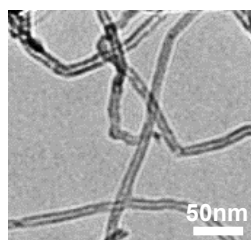
[Representative physical properties]

	TC-2000
Type	Tangled
Avg. tube diameter (nm)	16
Length (μm)	1-5
Purity (%)	>91
Bulk density (g/cm ³)	0.05-0.10
Crystallinity IG/ID	0.9-1.3



Control of tube diameter (10-20nm)

Control of CNTs shape (crystallinity)



[CNTs control technology]

※Because of developing sample, we may refuse to provide sample depending on the purpose of use.

APPLICATIONS

- Conductive plastic
- Reinforced lightweight plastic
- Conductive auxiliary material for ESS devices
- Electromagnetic wave absorber

