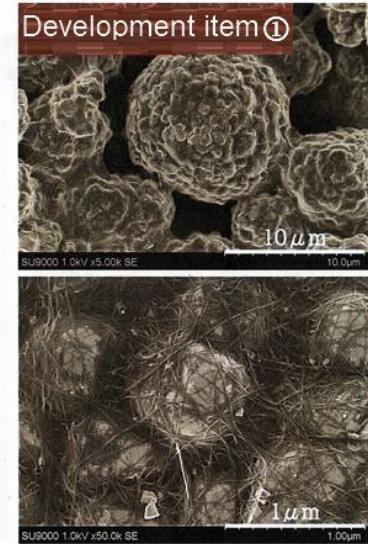


Ultra-high-concentration CNT dispersed powder (development item: for NMP)

Appearance (CNT 0.1g)

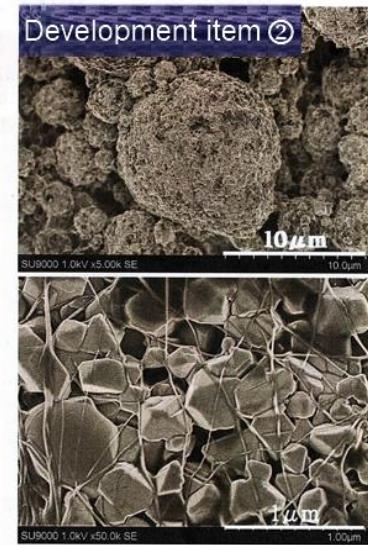
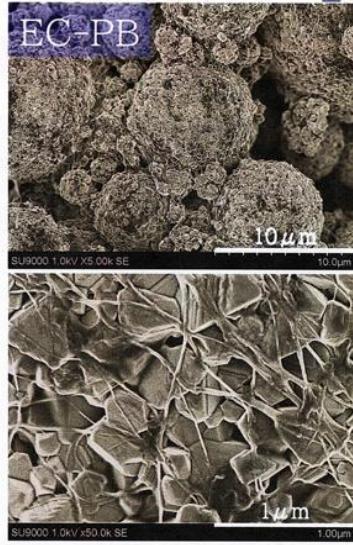


Electrode composition: NCM523/EC2.0-P/Dispersant (Dispersion source) + Binder = 97.95/0.05/2.00

Model	Type	CNT Concentration	CNT Type	CNT Center Diameter	Applicable solvents
EC-PBN	Slurry	0.4wt%	EC2.0-P	2-3nm	NMP
Development item ①	Powder	50.0wt%	EC2.0-P	2-3nm	NMP

Ultra-high-concentration CNT dispersed powder (developed item: suitable for H₂O)

Appearance (CNT 0.1g)



Electrode composition: LTO/EC2.0-P/Dispersant (Dispersion source) + Binder = 96.8/0.2/3.0

Model	Type	CNT concentration	CNT type	CNT center diameter	Applicable solvents
EC-PB	Slurry	0.4wt%	EC2.0-P	2-3nm	H ₂ O
Development item ②	Powder	34.0wt%	EC2.0-P	2-3nm	H ₂ O

Carbon Nanotube Dispersed Powder

➤ Summary

This dispersed CNT powder is produced using a proprietary, patent-pending processing technology that restructures previously defibrillated CNTs. The restructured CNTs can be defibrillated again during use. Its extremely high CNT content provides superior re-dispersion (re-defibrillation) performance and active-material coverage compared with paste-type products, making it ideal as a conductive additive for energy-storage applications such as lithium-ion secondary batteries.

➤ Appearance and Composition (Example)



Type	CNT	Fiber diameter nm	Composition			Volume cm ³ /per CNT1g
			CNT	Dispersant	solvent	
solvent-based	SWCNT	1~2	50.0%	50.0%	0.0%	5.2
water-based	SWCNT	1~2	34.0%	51.0%	15.0%	5.6

We can also perform dispersion processing according to the raw materials (carbon nanotubes, dispersants, solvents) required by customers.

➤ Main Features

1. High CNT Content

It achieves an extremely high CNT content (10%), which is not possible with paste-type products. In addition, it can be handled as a non-hazardous material, helping to reduce transportation and storage costs.

2. Excellent Re-dispersibility & Active-Material Coverage

Although it is a powder product, it provides superior re-dispersibility and coverage compared to paste-type CNT materials. It enables the formation of CNT networks within the electrode, contributing to an ideal conductive pathway.

3. High stability and high operability

The powder form gives it extremely high long-term stability and makes moisture control easier. Although it is a CNT, it has low scattering and excellent powder flowability.

➤ Summary

We also offer CNT (carbon nanotube) coating services for active materials, enabling the creation of active-material/CNT composite materials. A variety of CNT coating processes can be applied to a wide range of active materials. This eliminates the need for CNT redispersion and simplifies the battery manufacturing process. It is also considered highly effective for sulfide-based all-solid-state batteries and dry-process applications.

➤ Appearance and Composition (Example)

