Certificate of Analysis

Water-based SWCNT Conductive Agent

Model: TXBH-04
Batch number: TXBH-04-C1-202602-SH-M99-0611
Production date: 20260611
Storage : 12 months

Applications

Carbon search single-walled carbon nanotubes (SWCNTs) water-based slurry is widely used in lithium ion batteries and other applicable applications.

Ingredient

Single-walled Carbon Nanotubes	0.40wt.%
Dispersing Agent	0.60wt.%
Deionized water	99wt.%

Parameters	Units	Specifications	Actual Value	Method of Evaluation
Appearance	-	Odorless black liquid	OK	Visual inspection
Solid Content	%	1.0±0.1	1.010	Weight of dry residue
Optical Density	Absorbance units	0.4 – 0.6	0.497	Spectrophotometer
Dynamic Viscosity *	cPs	at the factory: 1500 - 5000 upon arrival: 1500 - 5000	1653	Bolerfei, RV DV 2T Rotor # 5 / 60 RPM
PH	/	6.0~8.0	7.36	SanLiang PH Instrument
Magnetic Impurities (Cr/Cu/Fe/Mn/Ni/Zn)	ppb	-	(0.181/0.443/ 111/0/0/1.08)	ICP-AES
Metal Impurities (Cr/Cu/Fe/Ni/Zn)	ppm	(<1/<1/<20/<1/<1)	(0/0/8.9/0/0)	ICP-AES

Measurement features:
* Single-walled carbon nanotube conductive slurry is a non-Newtonian fluid with both pseudoplastic and touch degeneration, that is, its viscosity depends on the shear rate (pseudoplastic) at the time of shear (touch degeneration). The change of touch is complex, switching between thichange and rheology under certain conditions.