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Prod. Code. 0330427 CNT Dispersant AQ

Aqueous Dispersion Procedure for CNT Dispersant AQ

With the small addition of SRL CNT Dispersant AQ to an aqueous suspension of carbon nanotubes (CNTs), their dispersion properties are greatly improved. Without the addition of this dispersant, dispersions of CNTs will separate out of water rapidly. Suspensions of CNT Dispersant AQ, distilled water, and CNTs are very stable for weeks.

Following is our recommended incorporation procedure for lab scale work:

- 1. Place 0.1 g of powdered CNTs in a 20 ml vial.
- 2. Add 10 ml of distilled water.
- 3. Agitate using an ultrasonic probe (1-2 minutes) or bath (~10 minutes.)
- 4. Add 0.2 g (~0.2ml) of CNT Dispersant AQ to the vial.
- 5. Agitate again using an ultrasonic probe (1-2 minutes) or bath (~10 minutes.)
- 6. Dispersion is ready to use and can be used immediately. If dispersion is to be used later, please resonicate a few minutes before use.

You will notice an amount of foam in the vial; this is due to the addition of the CNT Dispersant AQ and is a normal sign of surfactant use. In addition, the colour of water will blacken indicating that a stable suspension is being produced.

If using larger amounts of water, please be sure to increase the CNT Dispersant AQ level.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. If you have queries, feel free to mail us.