

## High-Performance Galvorn CNT Materials

*Tuesday 20 June 2023 15:00 (25 minutes)*

DEXMAT produces Galvorn CNT materials using a proprietary fluid phase production method. This method produces CNTF in which the CNT molecules are highly aligned along the fiber axis, resulting in high strength, electrical conductivity, and thermal conductivity along the axis of the fiber. Compared to a copper wire with the same diameter, a CNTF produced by this method has 12 times higher strength, more than 6 times lower density, at least 25 times higher flexure tolerance, and up to 50% higher thermal conductivity.

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**Session Classification:** Material procurement