DEXMAT

High-performance materials **for a low-carbon world.**

GALVORN

Designed for a carbon-negative future.

WHY GALVORN

DexMat is displacing GHG-intense metals and materials with conductive carbon nanomaterial: Galvorn. Galvorn is a carbon nanotube (CNT) family of products, including fiber, yarns, films, and fabrics. Galvorn is conductive at 10 MS/m today, but its true power is the combination of historically valued properties: it's also more lightweight, more durable, stronger, soft and flameproof. Fewer trade offs mean you can reimagine the products you build.

Stronger

than steel.

The weight of aluminium.



Greater flex life than copper.

CONDUCTIVE

BIO-COMPATIBLE

SOFT LIKE SILK; doesn't burn (we've tried)

CARBON-NEGATIVE at scale

Galvorn's unique properties can provide value across a wide range of industries:

E-Textiles | Sporting Goods & Equipment | Automotive | Aerospace | Defense | Energy

Available for purchase AT DEXMAT.COM

Grown out of cutting-edge research and commercialization work at Rice University and further developed with support of the National Science Foundation, U.S. Department of Energy, NASA, and the United States Air Force — Galvorn cracks the code on the promise of carbon nanotube structures.



Galvorn CNT Fiber

Conductivity, MS/m: 8 Density, g/cm3: 1.3 Tensile Strength, MPa: 2,400 Thermal Cond., W/(m-K): 400 Young's Modulus: 200 Gpa Diameter, µm: 5 - 100 Available lengths: 1 - 3,000 meters

Galvorn CNT Yarn

Conductivity, MS/m: 5 Density, g/cm3: 1.0 Tensile Strength, MPa: 1400 Thermal Cond., W/(m-K): 300 Young's Modulus: 90 Gpa Diameter, µm: 150-5,000 Available lengths: 1 - 1,500 meters

Galvorn CNT Film

Conductivity, MS/m: 5 Density, g/cm3: 1.3 Tensile Strength, MPa: 800 Width, cm: 1 - 5 Film thickness, µm: 10 - 20 Available lengths: 1 - 100 meters

Galvorn CNT Fabric

Fabric thickness, mm: 0.1 - 1.0 Fabric weight, g/m2: 10 - 500 Sheet Resistance, Ω /sq: 0.01 - 1.0 Available dimensions: up to 0.5 m in length/width

Ready to help us build the low-carbon economy of the future?

VISIT DEXMAT.COM