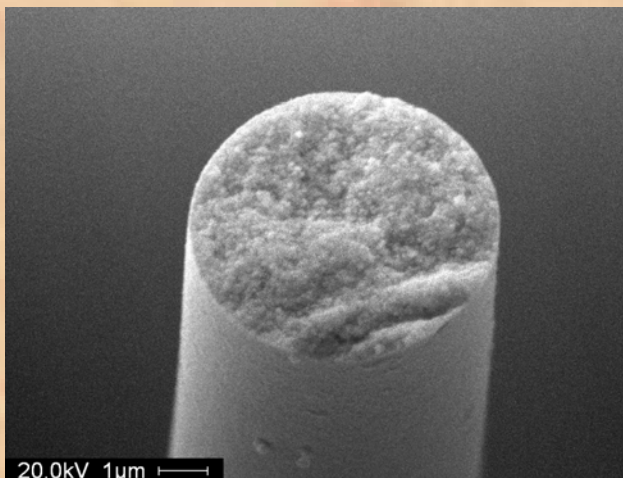


MATECH

Introducing

TaC-1600X Ceramic Fiber

This exploratory development UHT metal carbide fiber has been fired at 1650°C and exhibits minimum grain growth. Tantalum carbide (TaC) is a high melting compound with potential applications to solid propellant rocket nozzles.



Dense, Nanocrystalline Fiber
Continuous Tow
Up to Multi-Hundred Filaments

Diameter 4.5 µm
St. Deviation 0.5 µm

Tensile Strength 2.5 GPa
St. Deviation 0.5 GPa

Young's Modulus 742.5 GPa
St. Deviation 176.1 GPa



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