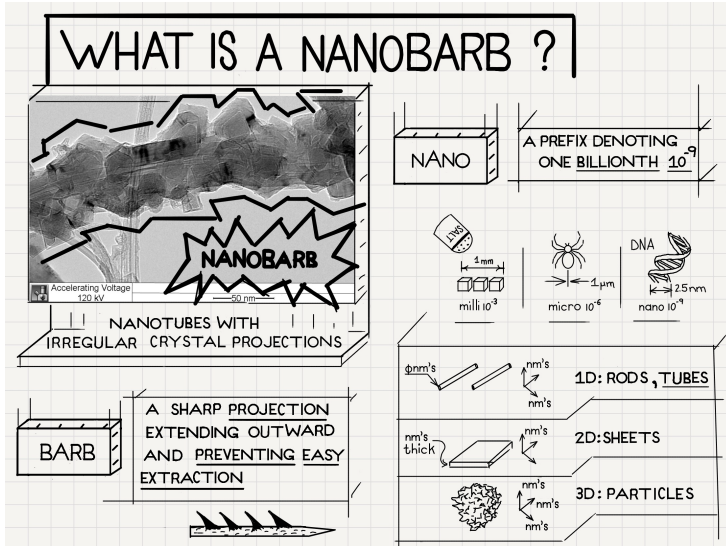
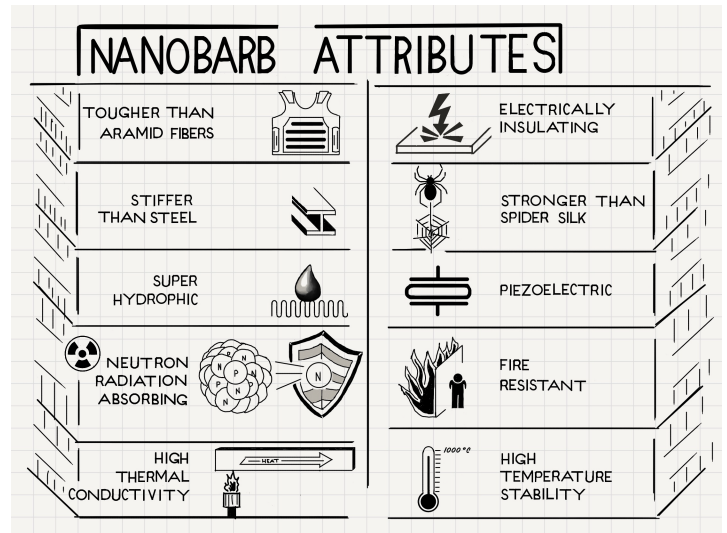


Boron Nitride NanoBarbs™ (BNNB-P-90A1)



BNNano uses a proprietary, catalyst-free process, to manufacture an enhanced boron nitride nanotube called the Boron Nitride NanoBarb™, with properties enhanced beyond typical nanotubes further making the NanoBarb™ a strategic component for improving advanced materials.

Boron Nitride NanoBarbs™ are boron nitride nanotubes that have nano-crystals of h-BN nucleated on the outside surface of the nanotube. The BNNano process produces high-purity and high-quality Boron Nitride NanoBarbs™ at a low cost that are free of common and metallic contaminants.



KEY PROPERTIES TABLE

Composition	>90% NanoBarbs™	
Impurities	1. h-BN (free floating) 2. elemental Boron	1. <10% 2. < 1 %
Wall Count	1-3	Typical
NanoBarb™ Width	60 nm	Nominal
NanoBarb™ Length	20 um	Nominal
Thermal Stability	>900°C	
Clusters	2-5 NanoBarbs™	Nominal
Barb Crystallites (h-BN “Barbs”)	a=60 nm , c=80 nm (crystallite size)	Nominal
Density	2.1 g/cm ³	Nominal
Appearance	White Powder	

INDUSTRIES AND APPLICATIONS

Composites & Alloys: Improves strength, stiffness, fatigue, creep resistance

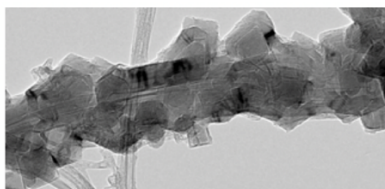
Textiles: Improves modulus, strength. Fire retardant

Aerospace: Improves mechanical properties and reduces weight of composites.

Thermal: Novel heat sinks, thermal conductor and electrical insulator.

Chemical: Filtration, Linings, Gaskets, Seals

Energy: Battery dielectric/insulator, H2 energy cell, Wind turbine blade strengthener



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