



# ZNT-boost, the only additive you need to increase performance in composites

[WWW.ZYVEXTECH.COM](http://WWW.ZYVEXTECH.COM)

ZNT-boost is a universal additive for epoxy-based composites that leverages the power of carbon nanomaterials. ZNT-boost can increase fracture toughness and damage tolerance up to 100% in many composite applications without compromising stiffness or strength. It is extremely easy to use and can be added to just about any epoxy (bisphenol A and F), vinyl ester, or polyester resin systems. The ZNT-boost system is non-reactive and does not require you to change your formulation ratios or alter your curing agents or catalysts.

ZNT-boost is available in both liquid and powder form. Each form is simple to integrate into your composite application and can be mixed with simple epoxy mixing equipment and processes and will not noticeably increase system viscosity. Please reference our TDS for mixing procedures and instructions.

Benefits of ZNT-boost	
* Up to 100% increase in fracture toughness	* Up to 30% increase in modulus
* No compromise in other properties	* No process changes required
* Easy to integrate – simple mixing	* Minimal increase in system viscosity

Demonstrated processes	Prepreg	Infusion	VARTM	Filament winding	Hand layup
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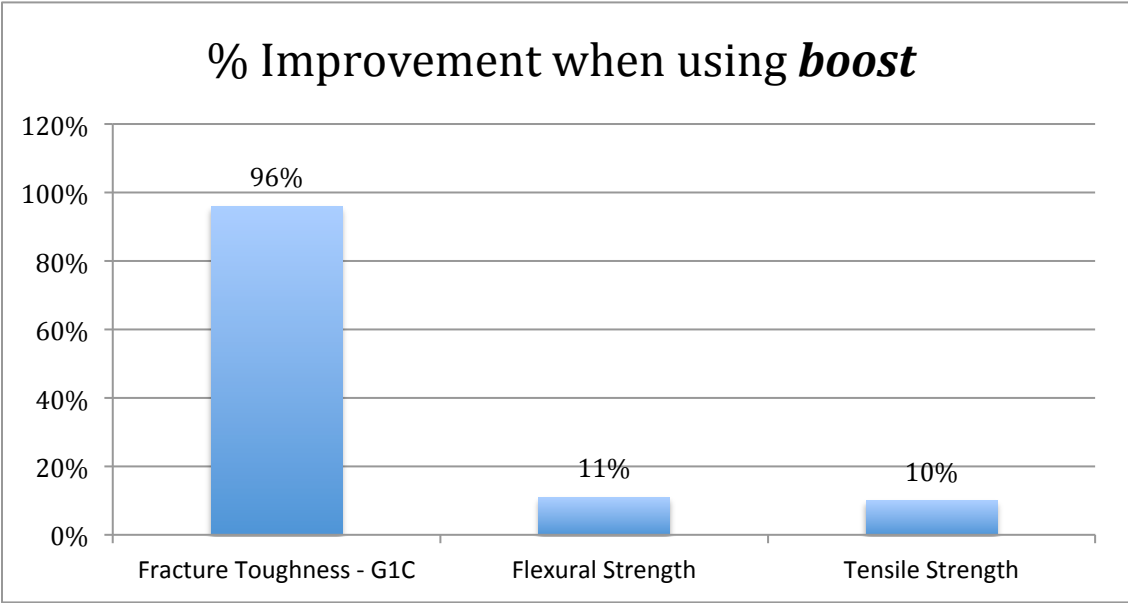
Demonstrated applications	Epoxies	Polyesters	SMC	BMC	Vinyl esters
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Typical industries	Aerospace	Automotive	Energy	Industrial	Oil & Gas	Coatings
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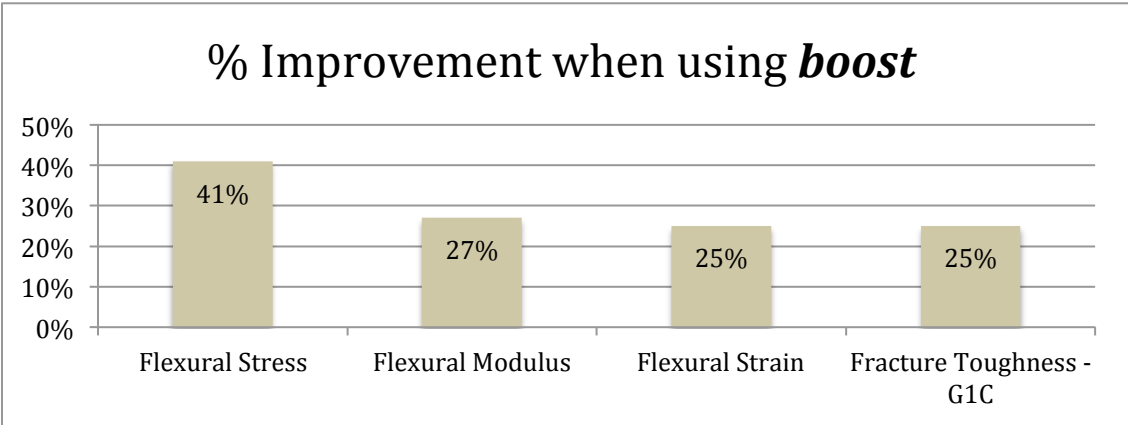
## MATERIAL PROPERTIES OF boost

PROPERTY	ZNT-boost
Color	Black
Nanomaterial	Arkema multi-walled CNTs
Appearance (powder)	Black powder
Appearance (liquid)	Black medium viscosity liquid
Total Solids, weight %	99 – 100%
Shelf Life	12 months
Typical loading level wt%	0.5–10% of resin system

Typical performance when using ZNT-boost



Carbon Fiber Prepreg System, 250F cure on standard modulus fiber



Glass Fiber Epoxy Laminates Fabricated by Hand Layup

ZNT-boost is available worldwide. Go to [zyvextech.com](http://zyvextech.com) to purchase and obtain technical and material safety data sheets

**Zyvex Technologies** pioneered the development of commercially available nano-engineered materials, beginning in 2005 with the world's first carbon nanotube enhanced products in a partnership with Easton Sports. Zyvex has continued to introduce innovative new materials and products to customers in aerospace, automotive, marine, industrial, and sporting equipment industries.

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