




## ABOUT US


**Weston and Associates, LLC – is a complete storage solutions provider for liquid & dry bulk storage systems worldwide with a combined 150 years of experience in the tank industry. Whether You Need A New Storage Application or A Custom Solution – We Can Help.**

## TANKS. DOMES. LINERS.


### **Liquid & Dry Bulk Storage Tanks.**

From Epoxy-Coated, Glass-Fused-to-Steel, Weston NanoCoat or Stainless Steel bolted tanks we've got you covered, no matter the application. 

### **Al Geodesic Domes & Sur-Seal Covers™**

Al Geodesic Domes, Fixed Steel Roofs and flexible membrane cover are the perfect blend of corrosion resistance and customization. 

### **Custom & Unique Drop-In Liners**

Our Sur-Seal Liners™ are the only solution of its type on, the market today, with a unique drop-in design that protect against corrosion. 



**Weston & Associates**

**330.791.7118**

**hello@westonacllc.com**  
**westonandassociates.com**

# THE FUTURE OF INDUSTRIAL COATINGS HAS ARRIVED

The Weston NanoCoat (WNC) is a two-coat system featuring low VOC epoxy primer and topcoat with significant advantages not only in corrosion protection, but also in application time and effort. The WNC can be applied to replace conventional three-coat systems traditionally used to protect steel surfaces in any environment.

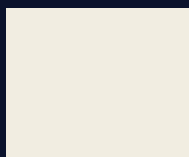
## WHY CHOOSE NANOCOATING ?

The WNC's difference is that it is formulated with carbon nanotubes that assemble into ropelike structures that make them **tough** and **flexible**. **"Tough"** translates into durability advantages over foes like weather, UV light, abrasion, and other wear and tear. **"Flexible"** means Weston-coated surfaces can be formed before or after coating and still remain intact because the carbon nanotubes can be stretched without breaking. CNTs have a tensile strength approximately **100 times stronger than steel** and more than **10 times stronger than diamond**.

- ✓ **Engineered to protect steel substrates.**
- ✓ **Low to no future maintenance costs.**
- ✓ **2x the life of traditional coating systems.**
- ✓ **Industries lowest up-front installation cost.**
- ✓ **Wet on Wet Application for 100% complete tank protection.**
- ✓ **Superior adhesion to steel more than any other coating system.**
- ✓ **Simple & Fast application that acts & protects like plating.**

## STANDARD COLOR OPTIONS

Note: All colors shown are printed representations only.  
Custom color are available upon request.



White: 9010



Gray: 7040



Tan: 1011

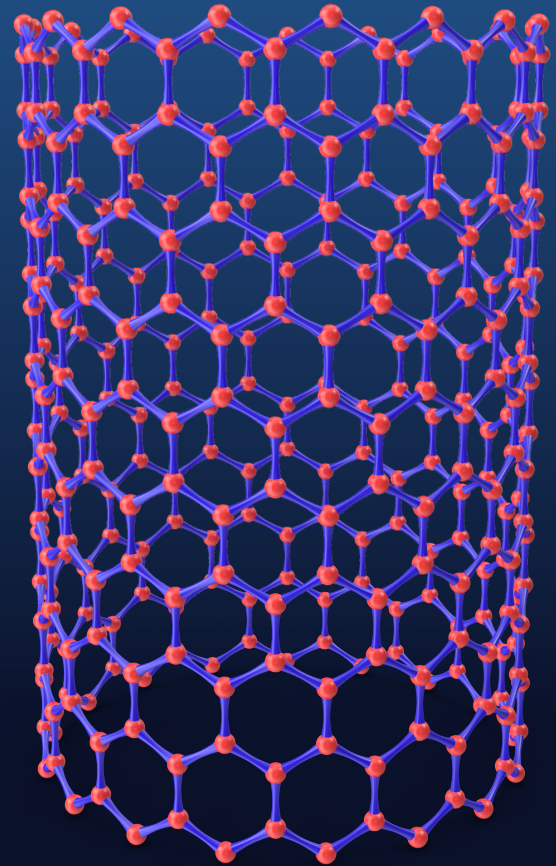


Blue: 5013

# WHAT EXACTLY IS A CARBON NANOTUBE ?

**Carbon nanotubes** (CNTs) are cylindrical molecules that consist of rolled-up sheets of single-layer carbon atoms (graphene). They can be single-walled (SWCNT) with a diameter of less than 1 nanometer (nm) or multi-walled (MWCNT), consisting of several concentrically interlinked nanotubes, with diameters reaching more than 100 nm. Their length can reach several micrometers or even millimeters.

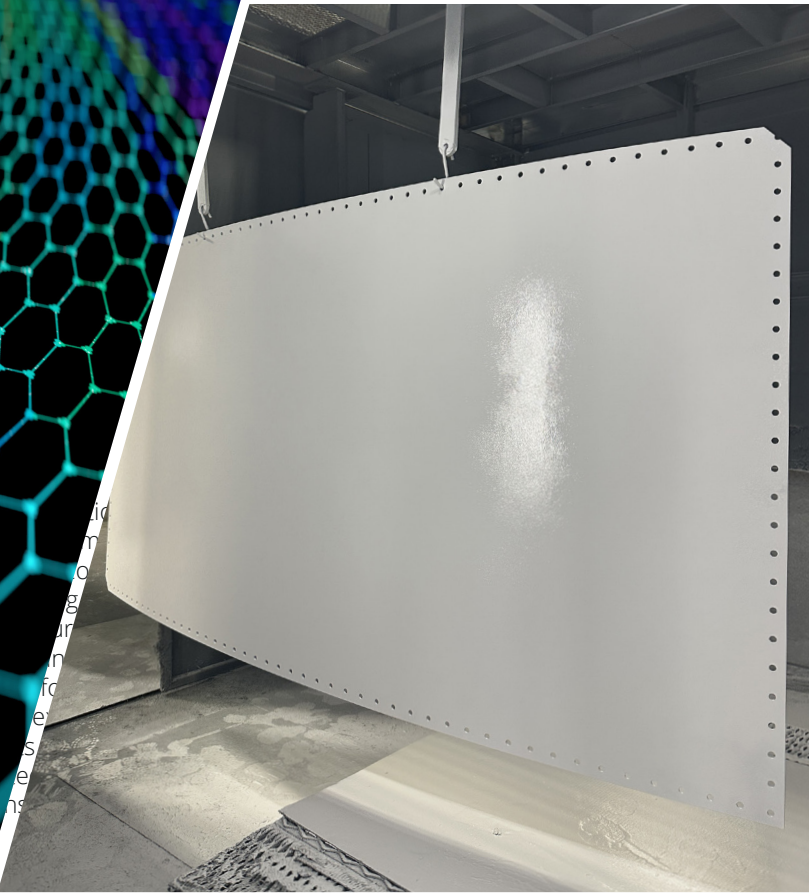
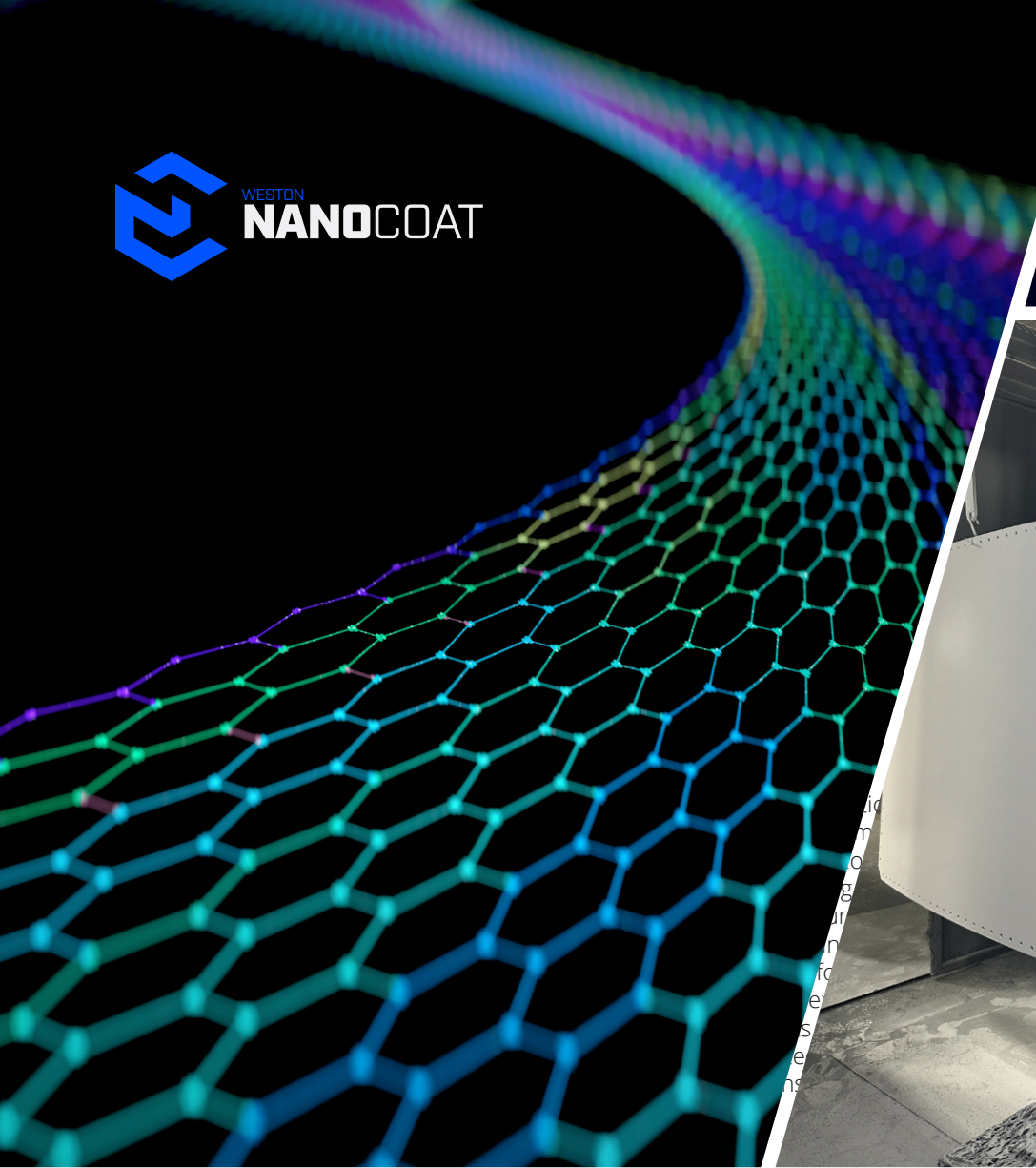
Like their building block graphene, CNTs are chemically bonded with  $sp^2$  bonds, an **extremely strong** form of molecular interaction. This feature combined with carbon nanotubes' natural inclination to rope together via van der Waals forces, provide the opportunity to develop **ultra-high strength, low-weight materials that possess highly conductive electrical and thermal properties**. This makes the WNC highly attractive for industrial applications and is **only available from Weston and Associates**.







<div><div>Data Comparison</div><div>Lab Testing</div></div> <div>Between the Weston NanoCoat (WNC) and Glass-fused-to-steel/Vitreous Enamel (GFS). <small>* Production panels were utilized for testing, no lab panels.</small></div>	<div><div>WESTON NANOCOAT</div><div>Lab Testing*</div></div>	<div>Glass/Vitreous Enamel</div> <div>Lab Testing*</div>
Bolted sidewall panel protection	Excellent <small>(50x greater tensile strength than steel alone)</small>	Excellent <small>(with exception of sheet edge and bolt holes).</small>
Edge Protection	Excellent <small>(8-12x greater bond to steel)</small>	Historically poor <small>(due to minimal glass coverage, with mastic) Improved protection may be provided with stainless steel edge coating.</small>
Bolt holes	Excellent	Poor, as shipped from factory <small>(covered with mastic sealant in the field)</small>
Coating Thickness	10-16 mils	8-13 mils <small>(must be verified due to high shop defect rate)</small>
pH	3-14 <small>(depending on product and temperature)</small>	3-11 <small>(depending on product and temperature)</small>
Corrosion Resistance ASTM B117	Excellent	Excellent
Temperature Tolerance	200°F water, Dry 200°F	140°F water, Dry N/A
Coating to substrate	WNC carbon nanotube epoxy <small>(Cycloaliphatic modified epoxy polyamide)</small>	Glass/vitreous enamel technology
Flexibility	1/8" mandrel test pass	None <small>(cannot be field repaired)</small>
Impact	160 in/lbs	4 in/lbs
History	New technology <small>(with 15+ years of testing)</small>	Old technology <small>(with history of spalling)</small>
Salt Spray	5000+ hrs pass <small>(Anti-corrosion tests/cyclic aging ISO 12944-9: NO FURTHER TESTING REQUIRED)</small>	7500 hrs pass <small>(Salt spray ASTM B117)</small>
Liquids	Submerged structural components are coated with WNC carbon nanotube epoxy	Submerged structural components are galvanized
Holiday Free Coating	Yes	No
Cathodic protection	Not required <small>(optional)</small>	Required <small>(due to coating discontinuities, coating damage &amp; uncoated bolt holds)</small>
Sealant	Mastic	Mastic
Panel Size	~5' tall x 10' long	~4.5' tall x 9' long
Construction Type	Horizontal RTP <small>(rolled, tapered panel)</small>	Horizontal RTP <small>(rolled, tapered panel)</small>



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