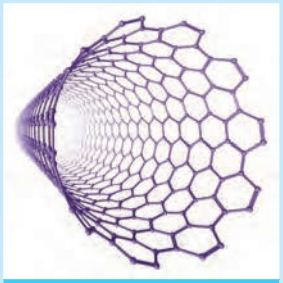

TESLA
NANOCOATINGS LTD
Conquering corrosion with nanocoatings

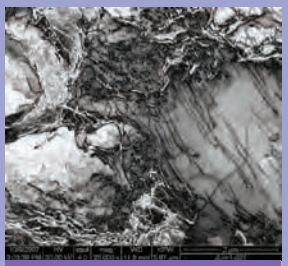
ABOUT



CARBON NANOTUBE

Tesla NanoCoatings Limited aims to be the pace-setter offering the toughest, most resilient and best corrosion resistant coatings ever developed. If breached, these coatings provide a secondary, sacrificial or cathodic protection of the substrate. One of the vital aspects of this technology is the utilization of Carbon nanotubes. The use of fullerene nanotubes, also called buckytubes, results in a network of carbon nanotube ropes which strengthens and stiffens the film while building an electron path through the binder system. In the not so distant future , this know-how will create 100-year coatings for steel. We will produce these results utilizing unsurpassed fullerene nanotechnology and ability to formulate the highest quality, user-friendly, environmentally responsible products obtainable.

THE SCIENCE

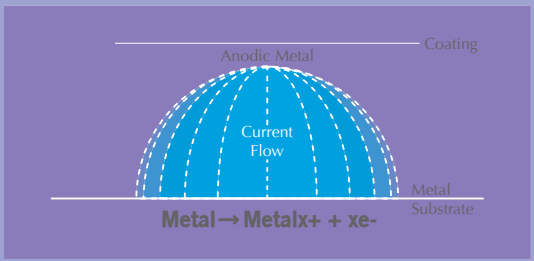


QUANTUM NANOWIRES IN TESLA PRIMER

Corrosion has many serious economic, performance, safety, and environmental consequences to our society. Most coatings can only provide a barrier between the substrate and the surrounding environment. Virtually all coatings are susceptible to defects and when the barrier is breached corrosion is likely to occur. Therefore, cathodic protection systems are often applied to coatings. Tesla has discerned methods of producing nanocathodic protection within a coating film.

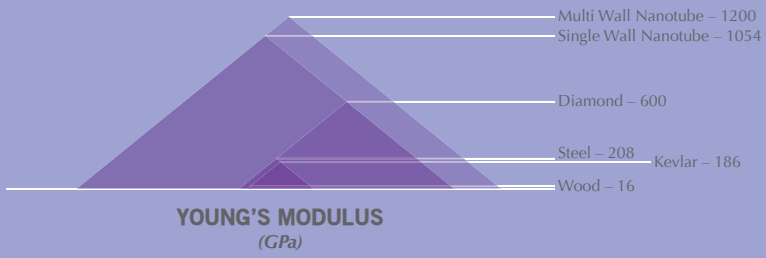
Carbon nanotubes are novel, manipulated atomic- or molecular-scale carbon structures that exhibit extraordinary strength and unique electrical properties; they are also efficient conductors of heat. The carbon nanotube is the strongest and stiffest material known. The chemical bonding of nanotubes is composed entirely of sp^2 bonds. These bonds, which are stronger than the sp^3 bonds found in diamonds provide nanotubes with their unique strength.

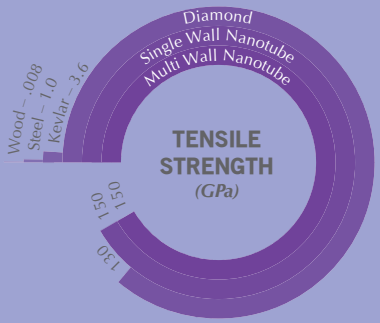
The unique physical and cathodic properties of these coatings lend themselves to increased life-cycles and reduced costs. Extending service life has a positive environmental and economic impact on waste reduction, energy and raw material consumption.



USES

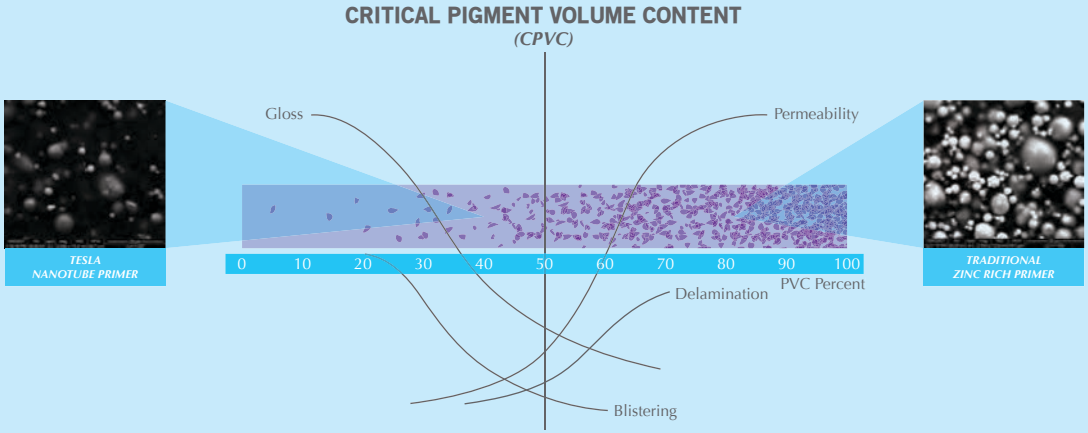
- Bridges
- Aircraft
- Offshore Rigs
- Ships
- Industrial Process Plants
- Water Treatment Facilities
- Locks and Dams
- Nuclear Power Plants
- Pipelines and Storage Tanks
- Plating Alternatives and Repair of Cadmium Plating and IVD Aluminum





BENEFITS

- Improved barrier integrity due to carbon nanotube reinforcement
- Cathodic corrosion protection in the event of a coating defect
- Improved durability and modulus under stress; impact, abrasion and flexing
- Easy to formulate high-solids coating system
- Coatings easily applied, no cumbersome work practices
- Longer service life and associated waste reduction



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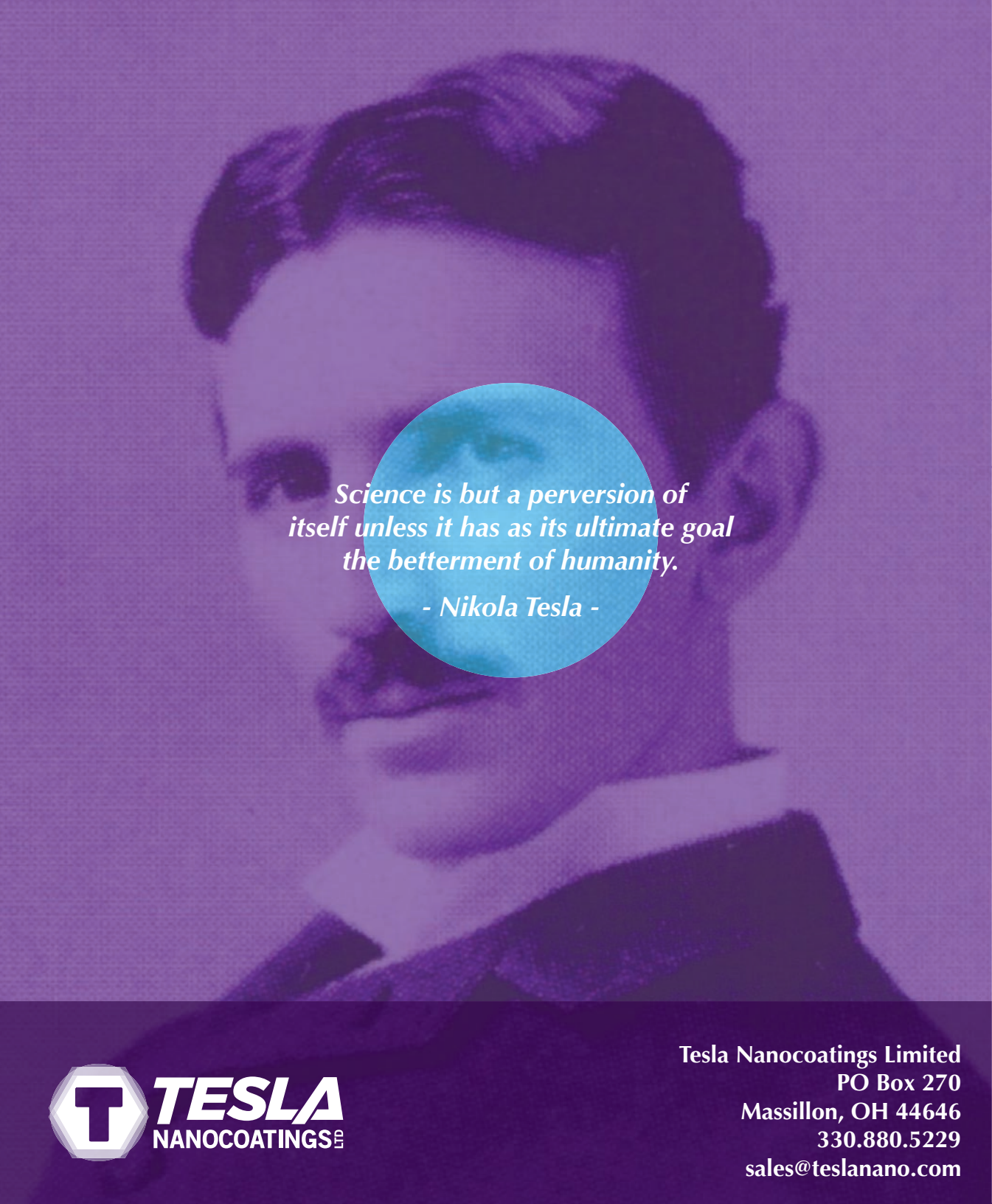

TESLA NANOCOATINGS LTD

Tesla Nanocoatings Limited
PO Box 270
Massillon, OH 44646
330.880.5229
sales@teslanano.com