



## MODUCOATINGS

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# NANO GALV<sup>®</sup> FASTENERS FAQS

NanoGalv is a zinc-nickel nanolaminate nanostructured technology that provides excellent corrosion resistance across a broad range of fastener applications.

### WHAT IS THE THICKNESS OF NANO GALV?

The minimum coating thickness is 8.0  $\mu\text{m}$  as measured on the significant surfaces per ASTM F1941-15 and ASTM B841-99(R04). Maximum thickness does not interfere with functionality. Minimums at other locations may be inferred from measurements on significant surfaces where there is a correlation.

### DO NANO GALV NUTS REQUIRE OVERTAP?

No overtap is required for thread fit. NanoGalv fasteners achieve superior corrosion resistance at proper thickness within standard thread allowances.

### WHAT IS THE OPERATING TEMPERATURE FOR NANO GALV?

Constant exposure : -148°F to 401°F ( -100°C to 205°C)  
Intermittent exposure: -148°F to 751°F ( -100°C to 400°C)

### HOW DOES NANO GALV STAND UP TO INSTALLATION TOOLS SUCH AS IMPACT WRENCHES?

NanoGalv has excellent durability and is not damaged by standard installation tools or practices.

### IS THERE RISK OF NUTS SEIZING?

Laboratory and field testing have demonstrated significantly fewer to no issues with seizing compared to conventional methods.

### CAN NANO GALV FASTENERS BE REUSED?

Yes, studs that have NanoGalv technology can be reused as long as the target stud stress doesn't exceed 80% MSYS or show any signs of visible damage.

### CAN NANO GALV FASTENERS BE USED IN CONTACT WITH STAINLESS STEEL COMPONENTS?

Yes. NanoGalv provides a compatible galvanic couple with stainless steels.

### IS THERE RISK OF HYDROGEN EMBRITTLEMENT?

The NanoGalv application process is strictly controlled and meets ASTM F519 industry standards.

### IS NANO GALV<sup>®</sup> COMPLIANT WITH INDUSTRY ADHESION STANDARDS?

NanoGalv adhesion performance meets ASTM B571 standards and has been independently verified.

### WHICH INDUSTRIES CAN BENEFIT FROM THE USE OF NANO GALV TO IMPROVE CORROSION RESISTANCE?

NanoGalv can be used across a broad range of industries including infrastructure, automotive, energy, and heavy equipment manufacturing.

### DOES MODUCOATINGS HAVE A RECOMMENDED BOLT AND FASTENER SUPPLIER?

Lamons is the preferred supplier offering a wide range of sizes and materials. Their large inventory of fasteners, stud bolts, eye bolts, threaded bar stock, and related hardware is manufactured in accordance with Six Sigma principles to ensure the highest quality product.

### WHAT ARE SOME OF THE MOST COMMON COATINGS/PLANTINGS AND INDUSTRY DESIGNATIONS THAT COVERS THE NANO GALV COATINGS?

ASTM F1941 Fe/Zn-Ni 8BN | ASTM B841 Class 2 Type AN  
ASTM B1025 Grade 8 Type A/AN