

trueECO

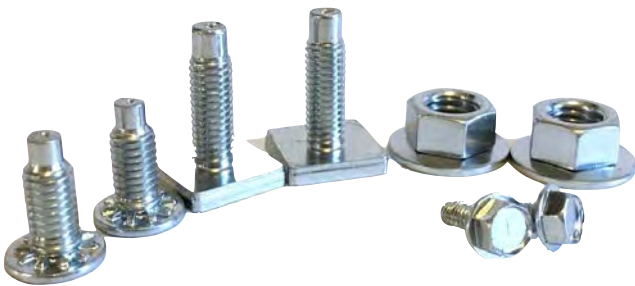
SC100



SC100 Chrome-Free Stainless-like Carbon Steel Fastener Nano Coating

TrueEco's exclusive nano-ceramic resin significantly enhances corrosion resistance on electroplated or chrome-free surfaces.

The SC100 Stainless-like Carbon Steel fasteners means a lower cost that will meet most of the high performance requirements in many industries, such as solar system, semiconductor equipment or transportation vehicles.



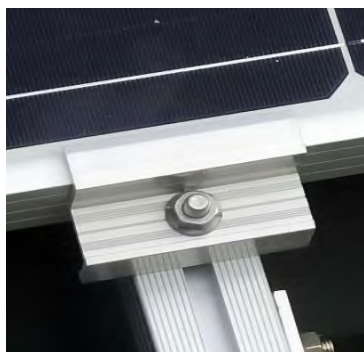
SC100's high mechanical strength and hardened prevents wearing and deformation during assembly and disassembly.

Product Features :

- * **Substrate:** High-strength carbon steel
- * **Electroplating:** Zinc plating (8-12 μm thickness)
- * **Coating:** Nano-ceramic coating (20-30 μm thickness)
- * **Corrosion Resistance:** White rust > 240 hrs, red rust > 2,000 hrs (ASTM B117), CASS>200hrs
- * **Galvanic Corrosion Resistance:** Effectively prevents corrosion between dissimilar metals
- * **Surface Hardness:** > 4H, excellent wear resistance
- * **Cost-Effective:** Superior performance and cost-saving compared to stainless steelment methods



SC100 is Stainless-compatible fastener, > 2,000hrs corrosion resistance, stainless-like glossy appearance



SC100 also reduces galvanic corrosion and minimizes surface wear from wind and sand or constant assembly or disassembly



SC100's Stainless-like is a new alternative for stainless fastener for solar industry

TrueEco’s coating technology is not only RoHS compliant non-chromate process, it also elevates carbon steel screws to rival or surpass stainless steel, combining superior strength with exceptional acid and corrosion resistance, ideal for high-strength outdoor fasteners.



Salt Spray Resistance Comparison – SC100 Outperforms Commercial Stainless

To demonstrate superior corrosion resistance, SC100 screws underwent the rigorous CASS TEST (Copper Accelerated Acetic Acid Salt Spray Test), following the ASTM B368 standard, which is significantly more demanding than the standard neutral salt spray test.

CASS TEST			
	SC100 Stainless-like Carbon Screw	SUS304 Stainless Screw	Hot-dip Galvanized Screw
96hrs	V	V	V
168hrs	V	V	X
200hrs	V	X	X

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