

NANO TECHNOLOGY TREATMENTS



Nanoquartz is a type of coating which, thanks to its characteristics and its capacity to bond at molecular level with other materials, avoids the adhesion of organic and inorganic substances on the surfaces to which it is applied.

Furthermore, Nanoquartz increases resistance to corrosion and chemical attack, it resists temperatures above 650 °C and it is created at room temperature.

Properties and technical characteristics

- Resistant to corrosion (ASTM B 117/97)
- Corrosion resistance on aluminum and brass for over 1,000 hours in salt spray and, if there are other surface coatings, 5-10 times higher performances can be achieved.

Hardness (ASTM E18-1 1 with nanodurometer)
500 Vickers

Food contact suitability

The treatment can be NSF 51 certified. This means that the coating is suitable for direct contact with food.

Flexural Strength (ASTM D 522)

The coating exhibits considerable resistance to bending, up to 180°.
The impact resistance is excellent too (ASTM 2794).

Chemical Resistance

This type of coating increases chemical resistance to acids and bases and other surface treatments used in pH-critical environments. Furthermore, it increases pitting corrosion resistance of stainless steels (ASTM G48)