Nanotec | TIM TEC

TIME RESISTANT



Products with Nanotec® coating are up to 20 x*

more corrosion resistant compared to other products with conventional coatings.





Nanotec is a nanoceramic coating line that resists up to 20x more corrosion. Environmentally friendly and free of heavy metals, it has a high anti-corrosive performance surface coating.

It is used on metal fasteners, providing friction control in industrial processes and providing superior aesthetics compared to similar coatings.



ABRASION RESISTANCE

High hardness and excellent performance against wear.



ECO-FRIENDLY

Free of chromium VI and other heavy metals, it is environmentally friendly and does not generate waste or aggressive agents



ADHESION

Great chemical interaction with the surface, generating high density and adhesion of the coating





ANTICORROSIVE

Even in highly corrosive environments, it prolongs the part life with excellent performance in neutral salt spray - ASTM B-117 and ISO 9227 standard.

	Base Coat + 1 layer of Nanotec [®]					
	White / Yellow Zinc		Black Zinc Iron		Organometallic	
Base Coat layer	5 a 8 µm	8 a 12 µm	5 a 8 µm	8 a 12 µm	1 layers	2 layers
Salt Spray - White plague corrosion	144h	240h - 400h	240h	400h	-	-
Salt Spray - Red plague corrosion	500h	1.000h - 2.000h	2.000h	+ 2.000h	1.000h	2.000h

* Neutral Salt Spray Test according to the ASTM B-117 standard; ** In specific cases, please contact the Ciser Product Development team.





The Nanotec[®] Aluminum coating has in its composition a combination of nanoparticles and aluminum to minimize the galvanic cell effect of fasteners mounted on aluminum profiles and structures. By preventing galvanic corrosion, Nanotec[®] Aluminum increases the longevity of the parts where it is applied.





INCREASE CORROSION RESISTANCE

While products with Nanotec® are capable of withstand more than 2,000 hours * no red rust, products with Nanotec® Aluminum overcome this resistance time even in direct contact with aluminum.

	Base Coat + 1 layer Nanotec® Aluminum	Base Coat + 2 layers Nanotec® Aluminum	
	White Zinc	White Zinc	
Base Coat layer	12 a 18 µm	12 a 18 µm	
Salt Spray - White plague corrosion	168h	240h	
Salt Spray - Red plague corrosion	2.000h	4.000h	

* Neutral Salt Spray Test according to the ASTM B-117/ ISO 9227 standard.



Nanotec® 3,000 is an innovative coating that, applied to the part, provides greater durability and resistance to corrosion and oxidation.



	Base Coat + 2 layers ofe Nanotec [®]	
	White Zinc	
Base Coat layer	12 a 18 µm	
Salt Spray - White plague corrosion	400h	
Salt Spray - Red plague corrosion	3.000h	
* Newtral Call Cases Test according to the ACTMAD 447 sta		

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