



TECHNOLOGY OF ENVIRONMENTAL PROTECTION



HIGH CORROSION RESISTANCE
ECO-FRIENDLY

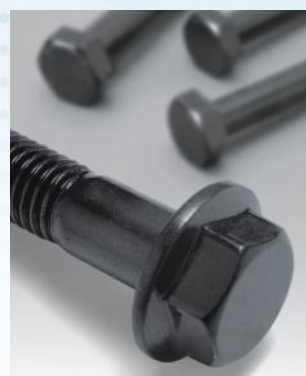
NanoMate®

NANO CERAMIC
COATING FOR
FASTENERS V

What can 2µm NanoMate® coating on Zn Cr3+ do for you?

The nano-ceramic particles of NanoMate® coating crosslink to form an ultra dense film on top of the metal to improve the corrosion resistance significantly.

The NanoMate® solution means a lower cost and lower thickness that will meet most of the high performance requirements in many industries. This process brings a new alternative for Zn Ni fasteners simply by modifying the low cost carbon steel surface with plating and 2µm thick nano-ceramic coating. Additionally, the new Cr3-Free NanoMate® coating meets the strictest environmental regulation without compromising performance.



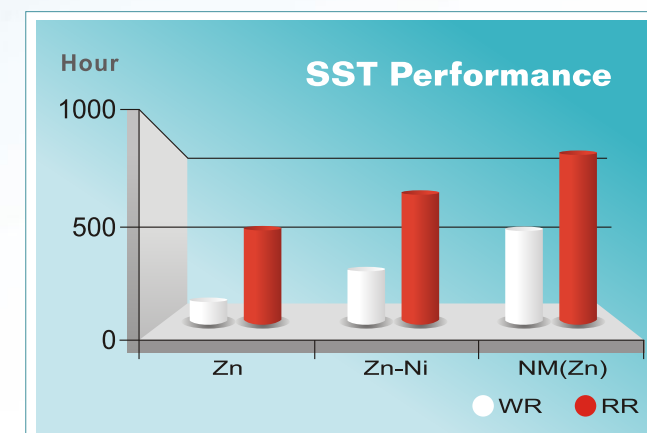
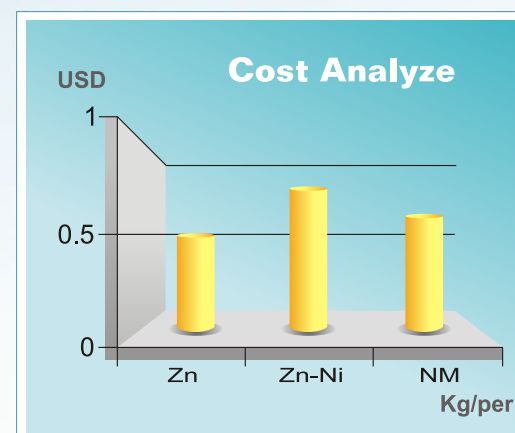
Regardless of size,
no recess fill or gauge
measurement issue



- Anti-abrasion
- Metallic luster
- Thermal stability
- Heavy metal free
- ELV/WEEE/RoHS compliant



Product No.*	Thick-ness of Zinc	Thickness of Coating**	SST to Red Rust/Hrs***	SST to White Rust/Hrs
C500	5 µm	0.5-1.0 µm	500	144
C1000	8 µm	1.0-1.5 µm	1000	240
Y500	5 µm	0.5-1.0 µm	500	168
Y1000	8 µm	1.0-1.5 µm	1000	240
B500	5 µm	1.0-2.0 µm	500	120
B1000	8 µm	2.0-3.0 µm	>720	240



* Product Code

C: Clear Passivation
Y: Yellow Passivation
B: Black Passivation

** Thickness varies depending on water-or solvent-based NanoMate® Solution

*** SST hours specification will be met only at controlled Zn plating and passivation conditions.

COF(Coefficient of Friction) adjustable.
Range:0.1~0.35



NanoMate® Application

- 1. Zn Plating (Acid/Alkaline) (or Zn-Fe/Zn-Ni)**
Barrel/Rack
SST White Rust : 0 hr
Red Rust : 0 hr
- 2. Passivation**
Passivation(Clear, Black, Yellow)
SST White Rust : 24 hr
Red Rust : 120 hr
- 3. NanoMate Coating-Layer 1**
Dip Spin → Curing 180°C, 10-20 min
SST White Rust : 120 hr
Red Rust : 500 hr
- 4. NanoMate Coating-Layer 2**
Dip Spin → Curing 180°C, 10-20 min
SST White Rust : 240 hr
Red Rust : >720 hr



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