



By: **EFFCO**
Smart Coating Technology

ECOMET SOLVENT BASE
Coating series

ECOMET TITANIUM
COLD DIP GALVANISING (CDG)

CDG has Zinc and Nano Carbon Crystals to form 60-80 microns thickness for threaded hardware. The coating is applied by dip spin or spray method. This is an ideal alternative for HDG and mechanical galvanizing. No gauge fitment issues or re tapping required for threaded hardware.

Duplex coating system which comprises of 2 coats of CDG bade plus 1 sealer top coat.

Bolt:



Packaging:



Characteristics:

Color: Zinc Grey

Application viscosity: 30- 35 sec. on Zhan cup 2 for Dip-spin & 25- 30 for spray application.

Thickness: 50- 60 μ

Application method: Dip/Spin, Spray

Thinner: Ecomet solvent 2755 UT

Curing: 30 min. at 220 deg C

Chrome content: Nil

After application on substrate:

#	Name of test	Procedure	Results	Comment
<i>Physical test</i>				
1	Coating Layer Thickness		50- 60 Micron	By thickness gauge
2	Adhesion	ISO- 10683	Pass	7Nm/12mm ²
3	Hardness of film	Pencil test	>4 H	
<i>Chemical test</i>				
1	MEK	20 Rub	Pass	
2	Copper sulphate by dipping	4 times	Pass	
<i>Performance test</i>				
1	SST	ASTM B117	Pass 1500 Hour	Alternate to HDG
2	Visible white rust		100- 300 Hours	No white rust above 300 hours



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ECOMET CORUNDUM

Our Solvent based- base coat compromises of Zinc and aluminium flakes combined with corundum and other nano crystal carbon material to form a thin anti corrosive film. The coating is a single system, applied by dip spin or spray method. It is a cost effective and superior corrosion protection system with a resistance to Auto Fluids & chemicals providing SST of 1200Hrs+.

Bolt:



Drum:



Characteristics:

Color: Silver Grey
Application viscosity: 40- 45 sec. on Zhan cup 2 for Dip-spin & 25- 30 for spray application.
Thickness: 8- 12 μ
Application method: Dip/Spin, Spray
Pretreatment: Degreasing & shot blasting
Thinner: Ecomet solvent 2755 UT
Sacrificial behaviour: Yes
Curing: 30 min. at 220 deg C
Cof: 0.12- 0.18 μ tot
Chrome content: Nil

After application on substrate:

#	Name of test	Procedure	Results	Comment
<i>Physical test</i>				
1	Coating Layer Thickness		8- 12 Micron	By thickness gauge
2	Adhesion	ISO- 10683	Pass	7Nm/12mm ²
3	Hardness of film	By pencil	>5 H	
<i>Chemical test</i>				
1	MEK	20 Rub	Pass	
2	Automotive Oil & Fuel tests	Dip	Pass	
<i>Performance test</i>				
1	SST	ASTM B117	Pass 2000 Hour	SGS Test report
2	COF test	ISO16047	0.15 +/- 0.03 tot	
3	5 times torquing & SST	ISO16047	Pass 1200 Hours	Pass after 5 times torquing