

## PRODUCT DATA SHEET

### ECOMET TITANIUM CDG

Chromium free Zinc and Nano Alloy Polymer based coating system with integral lubricant for Threaded Hardware and Fasteners corrosion protection applied by Cold Dip Galvanizing requirements like ISO 10684; called Dip Spin method followed by polymerization in curing oven.

PHYSICAL PROPERTIES	Units	
Color		Zinc Grey
Theoretical coverage	M. Square/kg@ 60 microns	8-10
Viscosity (Zhan Cup 2 )	Seconds	30-40
Solids (By Weight)	%	68-72
Density	Gms/cc	2.00 +/- 0.10
Flash point	°C	30

### APPLICATION

Substrate	Any metal substrate except high copper containing alloys.
Surface preparation	The substrate must be dry and free from dust and grease. Acidic/ basic impurities and particularly salts must be avoided.
Possible Pre-treatment	Degreasing followed by shot blasting with 2-3Ra
Application Method	Dip / Spin, Dip, Spray etc.
Filtration	100 mesh stainless steel sieve
Application viscosity	30 - 35 sec. on Zhan cup 2 for Dip-spin & 25 - 30 for spray application
Recommended DFT	50-60 $\mu$
Thinner	Ecomet Solvent 2755UT
Thinner addition	1-2 % by weight
Flash Off	5-10 min. at 100-120°C. If humidity is high, put in oven immediately.
Curing (metal temp.)	10 - 30 min. at 220 - 250 °C

- Physical constants are averages and are not to be used as product specifications. They may vary up to 5 % of the values shown are specifications representative for the process capability.
- Storage life is 12 months at 20-25°C. For more information on health & safety refer Material safety data sheet for handling and applying

## SUMMMARY

### ECOMET CDG-Cold Dip Galvanising Coating Test

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#### PHYSICAL TESTS OF LIQUID PAINT

#	Name of Test	Procedure	Results	Comment
1.	Viscosity	By Zhan Cup NO 2	30-40 seconds	
2.	Solid Content	By weight	68-72%	

#### AFTER APPLICATION ON SUBSTRATE: PHYSICAL TESTS

#	Name of Test	Procedure	Results	Comment
1.	Coating Layer Thickness		50-60 Micron	By Thickness gauge
2.	Adhesion	ISO-10683	Pass	7Nm/12mm2
3.	Hardness of Film	Pencil Test	>4 H	

#### AFTER APPLICATION ON SUBSTRATE: CHEMICAL TESTS

#	Name of Test	Procedure	Results	Comment
1.	MEK	20 Rub	Pass	
2.	Copper Sulphate by dipping	4 times	Pass	

#### AFTER APPLICATION ON SUBSTRATE: PERFORMANCE TESTS

#	Name of Test	Procedure	Results	Comment
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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