

Product Data Sheet

ECOMET CDG

INDUSTRIAL COATINGS

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	ECOMET CDG
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, 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	60-70 μ
Thinner	LC Solvent
Thinner addition	4-6% % 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

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- 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

ECOMET CDG-Cold Dip Galvanising Coating Test Summery

PHYSICAL TESTS OF LIQUID PAINT

No	Name of Test	Procedure	Results	Comment
01	Viscosity	By Zhan Cup NO 2	30-40 second	
02	Solid Content	By weight	65-70%	

AFTER APPLICATION ON SUBSTRATE: PHYSICAL TESTS

No	Name of Test	Procedure	Results	Comment
01	Coating Layer Thickness		60-80 Micron	By Thickness gauge
02	Adhesion	ISO-10683	Pass	7Nm/12mm ²
03	Hardness of Film	Pencil Test	>4 H	

AFTER APPLICATION ON SUBSTRATE: CHEMICAL TESTS

No	Name of Test	Procedure	Results	Comment
01	MEK	20 Rub	Pass	
02	Copper Sulphate by dipping	4 times	Pass	

AFTER APPLICATION ON SUBSTRATE: PERFORMANCE TESTS

No	Name of Test	Procedure	Results	Comment
01	SST	ASTM B117	Pass 1500 hour	Alternate to HDG
03	Visible White Rust		100-300 hours	No white rust above 300 hours