

PRODUCT DATA SHEET

ECOMET 500

Chromium free Zn-Aluminium flake coating system with integral lubricant as per ISO – 10683 - 2018 for metal corrosion protection.

PHYSICAL PROPERTIES	Units	
Colour		SILVER
Theoretical coverage	m ² /kg/10 μ	10-12
Viscosity (Zhan Cup 2)	Seconds	100-200
Solids (By Weight)	%	33±3
Density	Gms/cc	1.35 ± 0.1
Flash point	°C	>100
COF Values ISO 16047		0.12 - 0.18 μtot
Chrome Content		None

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, blasting with proper blasting media (special grade SS shots.)
Application Method	Dip / Spin, Dip, Spray etc.
Filtration	100 mesh stainless steel Sieve
Application viscosity	80 -100 sec. on Zhan cup 2 for Dip-spin & 50 – 60 for Spray application.
Recommended DFT	8-12 μ
Thinner	DM Water
Thinner addition	Add 2 -3 % Water if required
Flash Off	<u>5-15 min at 100 – 120 °C</u>
Curing (metal temp.)	<u>25 – 30 min. at 330 °C ± 10 Object Temp.</u>
Temp. of Coating Material	<u>Min.15 to max 40°C</u>
Room Temp. (ambient Temp.)	<u>Min.15 to max 40°C</u>
Ideal Humidity	<u>35 to 65 % RH</u>
Storage Stability	<u>One Month After Preparation of Paint at 20 – 25 °C.</u>

- 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. For more information on health & safety refer Material safety data sheet for handling and applying

SUMMARY

ECOMET 500
Coating Test

PHYSICAL TESTS OF LIQUID PAINT

#	Name of Test	Procedure	Results	Comment
1.	Viscosity	Zhan Cup no 2	100-200 Seconds	
2.	Solid Content	By weight	33+-3%	
3.	pH		5-7	

AFTER APPLICATION ON SUBSTRATE: PHYSICAL TESTS

#	Name of Test	Procedure	Results	Comment
1.	Coating Layer Thickness		8-12 Micron	By Thickness gauge
2.	Adhesion	ISO-10683	Pass	7Nm/12mm ²
3.	Hardness of Film	By pencil	>4 H	

AFTER APPLICATION ON SUBSTRATE: CHEMICAL TESTS

#	Name of Test	Procedure	Results	Comment
1.	MEK	20 Rub	Pass	
2.	Automotive Oil and Fuel Tests	Dip	Pass	

AFTER APPLICATION ON SUBSTRATE: PERFORMANCE TESTS

#	Name of Test	Procedure	Results	Comment
1.	SST	ASTM B117	Pass 1000 hour	
2.	COF Test	ISO16047	0.15 +/- 0.03 tot	
3.	Heat Resistance	300 deg c for 96 hours	500 hours SST	

Disclaimer: The information given herewith is provided in good faith and is based on internal information. The performance may vary from customer to customer. Effco makes no warranties, expressed, or implied as to the accuracy of the information. Effco disclaims liability for any incidental or consequential damage. These data & information cannot be taken for any legal claim or court procedure. Lab trials should be conducted before taking bulk batch.