

ISO 9001:2015
Certified Company

Our Motto:
Commitment to Quality and Customer Care



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THE METAL POWDER COMPANY LIMITED
Manufacturer of metal powders & pastes

LAMELLAR ZINC PIGMENTS

Spherical zinc particles have been used in anticorrosive coatings for several decades, representing a highly detailed and regulated technology with limited room for innovation.

In an effort to enhance property performance across various applications, MEPCO has challenged the established zinc dust primer industry by introducing an innovative zinc flake product. This redefines corrosion protection by optimizing zinc utilization while maintaining exceptional performance in industrial coatings.

ZINC FLAKE BY MEPCO

Environment Benefit

Lower Zinc content in coating formulation reducing mining extraction consumption – Minimizing Carbon footprint

Environmentally friendly compared to Zinc electro deposition

Technical Performances

Improved corrosion performances due to flake morphology – Sacrificial and Barrier protection

No hydrogen embrittlement when compared to Zinc electro deposition

Commercial Aspects

Streamlined supply chain incorporated optimised price structure, warehousing and logistic .

Quality management ISO certified

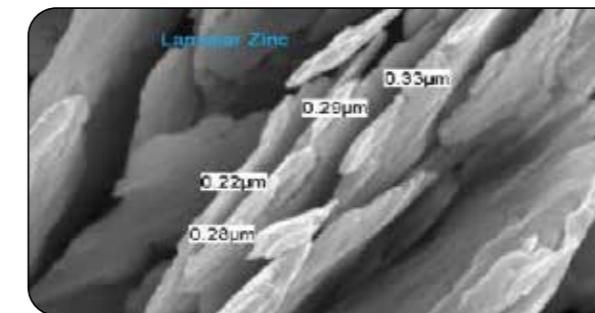


ANTICORROSION STANDARD COMPLIANCE USING MEPCO ZINC FLAKE

| STANDARD | REGION | DESCRIPTION |
|-------------|---------------|--|
| IS 4759 | India | Requirements for Corrosion protection |
| ISO 12944 | Europe | Corrosion Protection of Steel Structures |
| NACE SP0178 | North America | Ensure optimal Corrosion resistance |
| ASTM D7091 | North America | Standard guide for Corrosion protection |
| JIS H8601 | Japan | Demonstrate Corrosion Resistance |
| GB / T 9753 | China | Relevant Corrosion protection |

PRODUCT GRADES

| TYPE | Volatile (%) - ISO 1247 | Solvents | Sieve Analysis (%) - ASTM 185 | D50 (micron) - Malvern 3000 |
|--|-------------------------|----------------|-------------------------------|-----------------------------|
| Dried Powder Flakes | | | | |
| F 7512 | nil | nil | <45 / 96 min | 20 |
| ZF15 | nil | nil | <45 / 95 min | 10 to 16 |
| ZF20 | nil | nil | <45 / 95 min | 18 to 25 |
| Pasted Flakes | | | | |
| ZT 7512 | 30 max | Mineral Spirit | > 45 / 10 max | 14 to 20 |
| ZP15 | 15 max | Mineral Spirit | >45 / 3 max | 13 to 17 |
| ZP5 | 15 max | Mineral Spirit | >45 / 3 max | 10 to 14 |
| Zinc Alloys (Al, Sn, Mg, Ni) - Dried Powder Flakes - Pasted Flakes - In development | | | | |



TYPICAL MEPCO ZINC FLAKE MICROGRAPH



TYPICAL FASTENER DIP SPIN COATING – 8 MICRONS

