

## Miapeal Series

### Wet Processing Mica Powder

**INCI Name:** Mica

With selected layered structure and clay characteristics silicate mica raw materials, water as the carrier, mica is produced by wet stripping method. Maintaining original lamellar structure, this wet processing mica has high whiteness, high purity, high pearl luster, well-distributed particle size, large radius-thickness ratio and smooth surface. It is synthesized at high-temperature after grinding, impurity removal, soaking, washing, low-temperature drying.

It has stable physical and chemical properties for high temperature resistance, corrosion resistance and non-yellowing characteristic, has excellent mechanical properties such as insulation, weather resistance, friction resistance, bendability and elasticity, as well as has material addition and reinforcement performance.

### Product Parameters:

|   |  |
|---|--|
| Appearance:<br>(visual inspection)                    | White to light yellow pearlescent powder |
| Particle size:<br>(D50, laser particle size analyzer) | 10、13、20μm                               |
| Bulk density:<br>(g/cm <sup>3</sup> )                 | 0.2-0.4                                  |
| pH value:<br>(2% aqueous solution)                    | 5.0-9.0                                  |
| Whiteness:<br>(whiteness meter)                       | >70                                      |
| Loss on drying:<br>(%,105°C,3hrs)                     | ≤1.00                                    |

### Product Specifications:

| Product name  | D 50 mean particle size<br>(μm) | Oil absorption<br>(cc/100g) | Surface coating | Mineral type                 |
|---------------|---------------------------------|-----------------------------|-----------------|------------------------------|
| Miapeal S-10  | 13                              | 55-65                       | No              | Granulated mica              |
| Miapeal M-10  | 10                              | 50-65                       | No              | Flaky mica                   |
| Miapeal HC-10 | 10                              | 55-65                       | No              | High-purity ultra-white mica |
| Miapeal HC-20 | 20                              | 50-60                       | No              | High-purity ultra-white mica |
| Miapeal SS-10 | 13                              | 50-60                       | Lipophilic      | Granulated mica              |
| Miapeal MS-10 | 10                              | 50-60                       | Lipophilic      | Flaky mica                   |

## Product Features and Applications:

### Features:

- 1) Two-dimensional sheet structure, large radius-thickness ratio, excellent elasticity · ductility, sliding and wear quality, electric insulation, thermal insulation, small thermal expansion coefficient.
- 2) UV shielding ability and infrared thermal radiation function, chemical acid and alkali resistance, high temperature resistance, heat and fire resistance, good weatherability.
- 3) HC 10 and HC 20 product, bright pearlescent effect, high purity, super white, high temperature resistance, no discoloration, more stable performance.
- 4) Improving the mechanical strength and friction resistance of products, soft and elastic, sound insulation and shock absorption.
- 5) Good corona resistance, no carbonization, water absorption or bursting under strong electric arc.
- 6) Various lipophilic surface coating modifications, improvement in its compatibility with polymer resin and polymer to obtain materials with higher performance.

### Applications:

Engineering plastics, rubber, film, car, electronics, painting, coating, refractory, welding rod, etc.

## Storage Information:

|                   |   |
|-------------------|---|
| Manufacture area: | China   |
| Packing:          | 30 kg/ barrel   |
| Storage:          | Sealed, storage in a cool and dry place away from light |
| Shelf life:       | 36 months   |

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