



Chenxing Mica---Economic Choice for Your Industrial Application

A group of minerals having perfect basal cleavage and capable of splitting into thin laminae is called mica. Chemically they contain complex silicate of aluminium and alkalies with hydroxyl.

Taking the advantage of large reserve and mining capacity of muscovite mica mine, Chenxing company has been producing mica products since early 1960, our products have been sold to USA, South Korea, Japan, Europe and are widely applied in the fields:

- Automotive
- Paints and coating
- Plastics
- Plasterboard and joint compounds
- Pearlescent pigment
- Rubber
- Drilling
- Brake pad & clutches



Dry Ground Muscovite Mica

Quick View

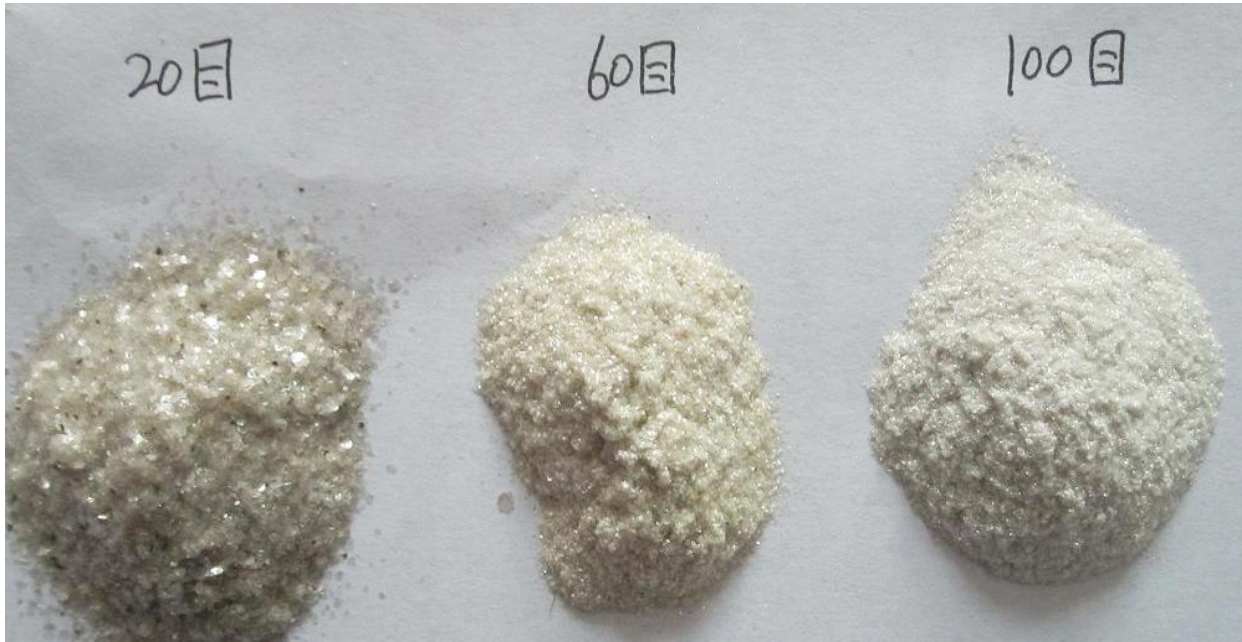
Muscovite Mica

| | |
|------------------|---------|
| Specific Gravity | 2.6 |
| Refractive Index | 1.58 |
| MOH hardness | 2.5 |
| pH value | 6.5-7.5 |



| Commodity | Definition | Size |
|---------------|--------------------|------------|
| Raw materials | Mica scrap | 8-20mesh |
| Dry Mica | Building materials | 20mesh |
| | | 40mesh |
| | | 60mesh |
| | | 80mesh |
| Powder Series | Plastic Grade | 100mesh |
| | | 16-30 mesh |
| Powder Series | Plastic Grade | 40-100mesh |
| | | 60mesh |
| | | 100mesh |
| | | 200mesh |
| | | 325mesh |
| Powder Series | Plastic Grade | 400mesh |
| | | 600mesh |

Dry Ground Muscovite Mica (Typical Grade Datasheet)



| Size | 20 mesh | | 60mesh | | 100mesh | |
|-----------------------|--------------|------|-------------|------|-------------|------|
| Properties | | | | | | |
| Mesh and percentage | mesh | % | mesh | % | mesh | % |
| Particle distribution | +20 | <5 | +60 | / | +100 | / |
| | -20 / +40 | 70±5 | -60 /+100 | 55±5 | -100 /+200 | 35±5 |
| | -40 / +60 | 25±5 | -100 / +200 | 40±5 | -200 / +325 | 25±5 |
| | -60 / +100 | <10 | -200 / +325 | <5 | -325 | <45 |
| | -100 | <5 | +325 | / | / | / |
| Moisture content | ≤0.5% | | ≤0.5% | | ≤0.5% | |
| Impurity | ≤1.0% | | ≤1.0% | | ≤1.0% | |
| Color | Silver white | | | | | |

| Chemical Analysis | | | | | | | | |
|--------------------------|------------------|--------------------------------|--------------------------------|------------------|-------------------|-------|-------|-------|
| Chemicals | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ | K ₂ O | Na ₂ O | MgO | CaO | L.O.I |
| Content | 44.30% | 31.21% | 5.74% | 10.58% | 1.17% | 0.62% | 0.57% | 4.97% |

| Other parameters: | | | | | | |
|--------------------------------|-------------------------|-----------|------------------|-----------------------|----------|--|
| Ratio of diameter to thickness | Loose density | Whiteness | Refractive index | Density | pH value | |
| 1:30 | <0.30 g/cm ₃ | 70 | 1.58 | 2.8 g/cm ³ | 6.5-7.5 | |

Wet Ground Muscovite Mica

Scrap mica is ground by three processes, namely dry grinding, wet grinding and micronising. The marketed product is classified according to the grinding process which indicates quality and properties like colour, mesh size and bulk density. Dry mica powder is prepared by grinding in high speed hammer mills. The edges of the flakes get crushed and powdered mica is produced which gives the appearance of flour. Wet-ground mica is produced by grinding in water involving preferential delamination of flakes. Churn mills, with large wheels or rollers rotating on horizontal shafts are used for this purpose.

| Commodity | Definition | Size |
|------------------------|----------------|--------------------|
| Wet Ground Mica Series | High Class | 100mesh |
| | | 200mesh |
| Mica Series | Cosmetic grade | 325mesh |
| | | 400mesh |
| Mica Series | Pearl luster | 600mesh |
| | | 1250mesh |
| Mica Series | Pearl luster | 2000mesh |
| | | Coarsely superfine |
| Mica Series | Pearl luster | Finely superfine |



Wet Ground Muscovite Mica (Typical Grade Datasheet)

| Size | 100 | 200 | 325 | 400 | 500 | 600 | 800 | 1000 |
|---------------------------------|------|-------|-------|-------|-------|-------|-------|-------|
| | mesh | mesh | mesh | mesh | mesh | mesh | mesh | mesh |
| Residue % | ≤0.5 | ≤5.0 | ≤5.0 | ≤5.0 | ≤5.0 | ≤10.0 | ≤10.0 | ≤10.0 |
| Fe content ppm | ≤800 | ≤800 | ≤400 | ≤400 | ≤300 | ≤300 | ≤300 | ≤300 |
| Impurity % | ≤1.0 | ≤0.5 | ≤0.5 | ≤0.5 | ≤0.5 | ≤0.5 | ≤0.5 | ≤0.5 |
| Loose density g/cm ³ | ≤0.3 | ≤0.25 | ≤0.25 | ≤0.22 | ≤0.22 | ≤0.22 | ≤0.22 | ≤0.22 |
| Moisture: % | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 |
| Whiteness° | >75 | >75 | >75 | >80 | >80 | >80 | >80 | >80 |
| Ratio of diameter to thickness | >60 | >60 | >60 | >60 | >60 | >60 | >60 | >60 |



Phlogopite Mica

Quick View

Phlogopite Mica

Specific Gravity 2.6

Refractive Index 1.58-1.64

MOH hardness 2.5-3

pH value 6.5-7.5



| Commodity | Definition | Size |
|-------------------|------------|---------------------------|
| Phlogopite series | Phlogopite | 8-16mesh |
| | mica | 16-20mesh |
| | Phlogopite | 20-40mesh |
| | Mica | 40-80 mesh |
| | powder | 80-100mesh 200-325mesh |



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