

Technical Data Sheet

BMC USP/FCC

Basic Magnesium Carbonate

For use in the manufacture of antacid preparation and mineral supplement and in cosmetics.
Complied with the requirements of U.S. Pharmacopoeia and Food Chemicals Codex (current edition)
for Basic Magnesium Carbonate.

| <u>Chemical Analysis</u> | <u>Specification</u> | <u>Typical Value</u> |
|---------------------------|-----------------------------|----------------------|
| Magnesium Oxide as MgO | 40.0-43.5% | 42.0% |
| Identification | Positive test for Magnesium | Passed test |
| Soluble Salts | 1.00% max | 0.03% |
| Acid-Insoluble Substances | 0.050% max | 0.02% |
| Arsenic as As (USP) | 4 ppm max | < 1 ppm |
| Calcium as Ca (USP) | 0.45% max | 0.10% |
| Calcium as CaO (FCC) | 0.60% max | 0.10% |
| Lead as Pb (FCC) | 2 ppm max | < 0.3 ppm |
| Heavy metals as Pb (USP) | 30 ppm max | < 20 ppm |
| Iron as Fe (USP) | 200 ppm max | 50 ppm |
| Microbial limit (USP) | Absence of E.Coli | Absent |

| <u>Physical Analysis</u> | <u>Specification</u> | <u>Typical Value</u> |
|--|----------------------|----------------------|
| Tapped Density (1000 taps) * | 0.43 g/cc min | 0.45-0.55 g/cc |
| Particle size: residue on 325 mesh (wet sieve) * | 0.3% max | 0.1% |

Appearance and description: Free flowing white powder, insoluble in water and alcohol.
Dissolves in dilute mineral acids with effervescence (Caution! Exothermic reaction!).
Composition: 5MgO. 4CO₂. 5H₂O

Packaging and storage: Net 20 kg in multiwall paper bags with separately sealed moisture proof inner polyethylene bag or big bags. Store in original packaging in a dry, ventilated space.
Keep away from moisture and acids.

Shelf-life under suitable storage conditions: 4 years from date of manufacture.
Customer-tailored specifications and other packaging modes are available.

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* - Inspection or field according to specific requests

