



Technical Data Sheet – Magnesium Oxide

Magnesium oxide (MgO), or magnesia, is a white hygroscopic solid mineral that occurs naturally as periclase and is a source of magnesium (see also oxide). Magnesium oxide was historically known as magnesia Alba (literally, the white mineral from Magnesia – other sources give magnesia Alba as MgCO₃).

Sr No	Parameters	Result
1	Magnesium Oxide as Percent's	85%
2	Magnesium as Mg	52%
3	Particle Mesh size	200 mesh

Application:

MgO is prized as a refractory material, i.e. a solid that is physically and chemically stable at high temperatures. It has two useful attributes: high thermal conductivity and low electrical conductivity. Filling the spiral Calrod range top heating elements on kitchen electric stoves is a major use. "By far the largest consumer of magnesia worldwide is the refractory industry, which consumed about 56 % of the magnesia in the United States in 2004, the remaining 44 % being used in agricultural, chemical, construction, environmental, and other industrial applications. MgO is used as a basic refractory material for crucibles.

It is a principal fireproofing ingredient in construction materials. As a construction material, magnesium oxide wallboards have several attractive characteristics: fire resistance, termite resistance, moisture resistance, mold and mildew resistance, and strength.