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## Typical Product Specifications & Properties

# Magnesium Oxide Special Industrial Grade SIG

CAS Number: : 1309-48-4

| Specifications                         | Limits    |
|----------------------------------------|-----------|
| Density                                | 3.65-3.75 |
| Very Soluble                           | in water  |
| Melting Point                          | 2800 c    |
| Residue on 100 mesh                    | 2.0% max  |
| Magnesium Oxide as MgO (by difference) | 99.0% min |
| Calcium as CaO                         | 0.30% max |
| Iron as Fe <sub>2</sub> O <sub>3</sub> | 0.04% max |
| Silicon as SiO <sub>2</sub>            | 0.05% max |
| Sodium as Na                           | 0.10% max |
| Chloride as Cl                         | 0.25%     |
| Sulphate as SO <sub>4</sub>            | 0.25% max |
| Boron as B <sub>2</sub> O <sub>3</sub> | 0.02% max |



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| Specifications           | Limits                           |
|--------------------------|----------------------------------|
| Loss on ignition (900 C) | 2.0% max                         |
| Bulk Density, tapped     | 0.40 - 0.80 g/cc                 |
| Surface area (BET)       | 4.0 - 20.0 m <sup>2</sup> /g     |
| Residue on 200 mesh      | 10.0% max                        |
| Residue on 325 mesh      | 25.5% max                        |
| Insolubility             | in alcohol                       |
| Odor                     | wh. powd. or cryst., odorless    |
| Molecular weight         | 40.31                            |
| Solubility               | dil. acids, ammonium salt solns. |
| Boiling Point            | 3600 c                           |



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