



**SPECIFICATIONS**  
**GRADE: USP**

|                      |                                                                     |                                                                                                                  |                            |
|----------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------|
| <b>PRODUCTS NAME</b> |                                                                     | <b>:</b>                                                                                                         | <b>MAGNESIUM OXIDE USP</b> |
| <b>CAS NO.</b>       |                                                                     | <b>:</b>                                                                                                         | <b>1309-48-4</b>           |
| <b>Sr. No.</b>       | <b>TEST PARAMETER</b>                                               | <b>SPECIFICATION</b>                                                                                             |                            |
| 1.                   | Appearance                                                          | Very bulky, white powder or relatively dense, white powder or granulated powder.                                 |                            |
| 2.                   | Solubility                                                          | Soluble in dilute acids with at most slight effervescence, Practically insoluble in water, Insoluble in alcohol. |                            |
| 3.                   | <b>Identification A</b><br>It gives the reaction of magnesium salts | To Pass Test                                                                                                     |                            |
| 4.                   | Assay (Ignited Basis)                                               | NLT 96.0 % and NMT 100.5 %                                                                                       |                            |
| 5.                   | Free alkali and soluble salts                                       | NMT 2.0 %                                                                                                        |                            |
| 6.                   | Acid-insoluble substances                                           | NMT 0.1 %                                                                                                        |                            |
| 7.                   | Limit of Calcium                                                    | NMT 1.1 %                                                                                                        |                            |
| 8.                   | Iron                                                                | NMT 0.05 %                                                                                                       |                            |
| 9.                   | LOSS ON IGNITION                                                    | NMT 10.0 %                                                                                                       |                            |
| 10.                  | Bulk density of powders                                             | For Information                                                                                                  |                            |
| 11.                  | Tapped density of powders                                           | For Information                                                                                                  |                            |