



**SPECIFICATIONS**  
**GRADE: BP**

| <b>PRODUCTS NAME</b> |                                                                                                                                                                                                                                                                                           | <b>:</b>                                                                                        | <b>HEAVY MAGNESIUM OXIDE BP</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                                                                                                                                                                                                                                                                                | Fine, white or almost white powder.                                                             |                                 |
| 2.                   | Solubility                                                                                                                                                                                                                                                                                | Practically insoluble in water. It dissolves in dilute acids with at most slight effervescence. |                                 |
| 3.                   | <b>Identification A</b><br>Bulk density<br><b>Identification B</b><br>Dissolve about 15 mg in 2 mL of dilute nitric acid R and neutralize with dilute sodium hydroxide solution R. The solution gives the reaction of magnesium<br><b>Identification C</b><br>Loss on Ignition (See Test) | Min. 0.25 g/mL<br><br>To Pass Test<br><br>To Pass Test                                          |                                 |
| 4.                   | Appearance of Solution                                                                                                                                                                                                                                                                    | Solution S is not more intensely colored than reference solution B3.                            |                                 |
| 5.                   | Soluble Substance                                                                                                                                                                                                                                                                         | Max. 2.0 %                                                                                      |                                 |
| 6.                   | Substance insoluble in acetic acid                                                                                                                                                                                                                                                        | Max. 0.1 %                                                                                      |                                 |
| 7.                   | Chlorides                                                                                                                                                                                                                                                                                 | Max. 0.1 %                                                                                      |                                 |
| 8.                   | Sulphates                                                                                                                                                                                                                                                                                 | Max. 1.0 %                                                                                      |                                 |
| 9.                   | Calcium                                                                                                                                                                                                                                                                                   | Max. 1.5 %                                                                                      |                                 |
| 10.                  | Iron                                                                                                                                                                                                                                                                                      | Max. 0.07 %                                                                                     |                                 |
| 11.                  | Loss on Ignition                                                                                                                                                                                                                                                                          | Max. 8.0 %                                                                                      |                                 |
| 12.                  | Assay (Ignited Basis)                                                                                                                                                                                                                                                                     | 98.0 % to 100.5 %                                                                               |                                 |