

**Piling Grade Benotonite Powder:**

**Physical Analysis:**

| Properties                                   | Protocol                                  | Unit          | Result     |
|--|---|---------------|------------|
| Liquid Limit                                 | IS:12446-1988                             | ml/100 gm     | 400 - 450  |
| Moisture Content                             | API Spec.<br>13A:2004/ ISO<br>13500: 1998 | % by wt.      | 12.0 Max   |
| Dry Screen Analysis (residue on 75 um sieve) | IS:6186-1986                              | % by. Wt.     | 10.0 max.  |
| Free Swelling Volume<br>2gm/100ml            | ASTM D<br>5890:1995                       | ml            | 30 - 35    |
| PH Value of 5% gel                           | IS:6186-1986                              | pH            | 9.5 - 10.0 |
| Loose Bulk Density                           | IS:7589-1974                              | gm/ml         | 0.85 – 1.0 |
| Gel Time 2.5gm/25 ml                         | IS:12446-1988                             | second        | Instant    |
| Filterate Volume                             | API Spec.<br>13A:2004/ ISO<br>13500: 1998 | ml            | 20 max     |
| Viscosity at 600 rpm                         | API Spec.<br>13A:2004/ ISO<br>13500: 1998 |               | 30 min     |
| Methylene Blue Value                         | API spe<br>131:2004/ ISO<br>10416:2002    | mg/gm of clay | 350 - 400  |