

Premium Gel[®]

Application: Refractory Brick suspensions, Industrial Products

Grade: General Purpose 200 Mesh Powder

TYPICAL ANALYSIS

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|---|--|--------------------------|--------------|-------------------|--------|--------------------------------|--------|------------------|------|--------------------------------|-------|-------|-------|-----|------|--------------------------|------|-----|------|----|--------------|--|
| General Description | General purpose filler for use when mild thixotropic properties are desirable. Premium Gel is a 200 mesh rheology enhancer | | | | | | | | | | | | | | | | | | | | | |
| Chemical Formula | Diocahedral smectite, an expanding layer silicate: $(\text{Na,Ca})_{0.33}(\text{Al}_{1.67}\text{Mg}_{0.33})\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot n\text{H}_2\text{O}$ | | | | | | | | | | | | | | | | | | | | | |
| Moisture | 12% maximum | | | | | | | | | | | | | | | | | | | | | |
| Dry Particle Size | Minimum 95% passing 100 mesh (150 microns) | | | | | | | | | | | | | | | | | | | | | |
| Elemental Analysis (Moisture Free) | <table border="0"> <tr> <td>SiO₂</td> <td>61.3%</td> <td>Na₂O</td> <td>2.57 %</td> </tr> <tr> <td>Al₂O₃</td> <td>19.8 %</td> <td>K₂O</td> <td>0.4%</td> </tr> <tr> <td>Fe₂O₃</td> <td>3.9 %</td> <td>Trace</td> <td>3.23%</td> </tr> <tr> <td>MgO</td> <td>1.3%</td> <td>H₂O Crystal</td> <td>6.5%</td> </tr> <tr> <td>CaO</td> <td>0.6%</td> <td>pH</td> <td>8.9% - 10.5%</td> </tr> </table> | SiO ₂ | 61.3% | Na ₂ O | 2.57 % | Al ₂ O ₃ | 19.8 % | K ₂ O | 0.4% | Fe ₂ O ₃ | 3.9 % | Trace | 3.23% | MgO | 1.3% | H ₂ O Crystal | 6.5% | CaO | 0.6% | pH | 8.9% - 10.5% | |
| SiO ₂ | 61.3% | Na ₂ O | 2.57 % | | | | | | | | | | | | | | | | | | | |
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| MgO | 1.3% | H ₂ O Crystal | 6.5% | | | | | | | | | | | | | | | | | | | |
| CaO | 0.6% | pH | 8.9% - 10.5% | | | | | | | | | | | | | | | | | | | |
| Packaging | Multi-wall paper bags (25 kg), or bulk | | | | | | | | | | | | | | | | | | | | | |

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