



# TECHNICAL INFORMATION



## HYDROGEL® PLUS

**Description:** HYDROGEL® PLUS is a high viscosity bentonite for drilling, boring and tunneling applications as well as slurry wall construction.

|                                 |   |                   |
|---------------------------------|---|-------------------|
| <b>Typical Characteristics:</b> | <b>Barrel Yield (Bbl/ton):</b>                          | 190 ± 10          |
|                                 | <b>Fluid Loss (cc):</b>                                 | 25 ± 3            |
|                                 | <b>Bulk Density (lbs./ft<sup>3</sup>):</b>              | 52 ± 3            |
|                                 | <b>Specific Gravity:</b>                                | 2.55 ± 0.1        |
|                                 | <b>pH:</b>  | 9.1 ± 0.4         |
|                                 | <b>Color:</b>   | Light Grey to Tan |
|                                 | <b>Moisture Content (%):</b>                            | 5 - 12            |
|                                 | <b>Sieve Analysis<br/>(% Passing #200 Sieve):</b>       | >79               |
|                                 | <b>Wet Screen Analysis<br/>(Residue on #200 Sieve):</b> | 3.0 ± 0.5         |

| Typical Chemical Analysis:     | %     |
|--------------------------------|-------|
| SiO <sub>2</sub>               | 60.34 |
| Al <sub>2</sub> O <sub>3</sub> | 19.28 |
| Fe <sub>2</sub> O <sub>3</sub> | 3.48  |
| Na <sub>2</sub> O              | 2.34  |
| TiO <sub>2</sub>               | .22   |
| CaO                            | .38   |
| MgO                            | 1.67  |
| K <sub>2</sub> O               | .10   |
| H <sub>2</sub> O               | 7.75  |
| Other                          | .07   |
| L.O.I.                         | 4.37  |

| E.P.A Toxicity Analysis: | E.P.A Standard (ppm) | Typical Analysis (ppm) |
|--------------------------|----------------------|------------------------|
| Arsenic                  | 5.0                  | <0.1                   |
| Barium                   | 100.0                | 0.5                    |
| Cadmium                  | 1.0                  | <0.05                  |
| Chromium                 | 5.0                  | <0.1                   |
| Lead                     | 5.0                  | <0.1                   |
| Mercury                  | 0.2                  | <0.02                  |
| Selenium                 | 1.0                  | <0.05                  |
| Silver                   | 5.0                  | <0.1                   |

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