

TECHNICAL INFORMATION



THERM-EX GROUT[™]

| Description: | THERM-EX GROUT[™] is a specially engineered system for use as a backfill material in earth coupled heat pump systems. | | | |
|--------------------------|---|--|----------------------|--|
| Typical Characteristics: | | Bulk Density (lbs./ft ³): | 58 ± 4 | |
| | | Cation Exchange Capacity (CEC meq(100gm): | 70 – 90 | |
| | | Color: | Light Grey to Tan | |
| | | Moisture Content (%): | 5 – 9 | |
| | | Permeability (cm/sec): | 1 X 10 ⁻⁸ | |
| | | pH: | 8.9 ± 0.9 | |
| | | Sieve Analysis | N70 | |

| pH: | 8.9 ± 0.9 | |
|------------------------------|-----------------------|--|
| Sieve Analysis | >79 | |
| (% Passing #200 Sieve): | | |
| Specific Gravity: | 2.55 ± 0.1 | |
| Surface Area | External Surface – 82 | |
| (m²/gm): | All Surfaces - 800 | |
| Thermal Conductivity | 0.93 – 1.2 | |
| (Btu/hr-ft- ^⁰ F): | | |
| Wet Screen Analysis | 3.0 ± 0.5 | |
| (Residue on #200 Sieve): | | |

| Typical Chemical Analysis: | % |
|--------------------------------|-------|
| SiO ₂ | 60.34 |
| Al ₂ O ₃ | 19.28 |
| Fe ₂ O ₃ | 3.48 |
| Na₂O | 2.34 |
| TiO ₂ | .22 |
| CaO | .38 |
| MgO | 1.67 |
| K ₂ O | .10 |
| H ₂ 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 |

WYO-BEN, INC., Billings, Montana

800.548.7055

406.652.6351

www.wyoben.com

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