

# GROUNDING GROUT™

## LOW-RESISTANCE GROUT FOR UTILITY & TELECOMMUNICATION GROUNDING

### DESCRIPTION

GROUNDING GROUT is a high-solids, single-component, bentonite grout. GROUNDING GROUT is specially formulated to provide a conductive seal around grounding rods. When used to seal drilled boreholes in which vertical grounding rods are placed, GROUNDING GROUT increases the grounding system's conductivity by lowering the resistivity from 300 ohms/meter with normal soil to 0.76 ohms/meter. GROUNDING GROUT adheres to the entire surface of the grounding rod, providing the smallest surface area and, consequently, offering the greatest effective resistance area. This helps to stabilize the ground resistance despite seasonal changes in temperature and soil moisture content.

### RECOMMENDED USE

GROUNDING GROUT is designed for use in grounding systems to assist engineers, electricians, and contractors in successfully solving more complex grounding problems. Virtually every industry that uses sensitive electronic or computer equipment can benefit from its use. GROUNDING GROUT's decreased ohmic impedance provides a designed discharge path for objectionable currents and lightning. It also helps absorb damage-causing surges on power lines and is essential for protecting the operation of electronic process controls.

### CHARACTERISTICS

- Assists in meeting NEC and OSHA electrical standards
- Develops into a dense, paste-like clay, adhering to any surface, remaining stable over time
- Easily compacted, non-corrosive, and conductive; no maintenance
- Fewer grounding rods needed and less real estate required
- Forms a contaminant-resistant seal without affecting adjacent groundwater chemistry
- Superior ground broadens PCS, cellular, and radio transmission coverage

### MIXING AND APPLICATION

Mix GROUNDING GROUT with a paddle mixer or a mud rotary circulation system and pump with a positive displacement pump. Pump through a tremie pipe from the bottom of the borehole to the surface.

50 LB BAG - Add one 50 lb (22.7 kg) bag of GROUNDING GROUT to 18 gallons (68 liters) of freshwater to produce 3.0 ft<sup>3</sup> (85 liters) or 22.44 gallon yield of grout at 25% solids.

35 LB PAIL - Add one 35 lb (15.9 kg) pail of GROUNDING GROUT to 12.5 gallons (47.3 liters) of freshwater to produce 1.912 ft<sup>3</sup> (54.14 liters) or 14.3 gallon yield of grout at 25% solids.



### MIXING AND APPLICATION

Appearance	Tan to gray granules
Bulk Density	71.81 lbs/ft <sup>3</sup> (1.15 kg/L)
Conductivity	1.31 mhos/meter
Moisture Content	8%
Permeability	1.0 x 10 <sup>-8</sup> cm/sec
Resistivity	0.76 ohms/meter
Slurry pH (8%)	8.0

### PACKAGING

~50 lb (22.7 kg) bag, 48 per pallet or ~35 lb (15.9 kg) pail, 36 per pallet. All pallets are plastic-wrapped.

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