GROUNDIT™

ECONOMICAL LOW-RESISTIVITY GROUNDING BACKFILL

Designed for the Electrical Power Industry

GroundIT™ provides the electrical power industry with a simple, economical method to substantially lower the earth resistance of copper clad ground rods and copper grounding systems. When used in conjunction with standard copper grounding equipment, GroundIT™ will lower the contact resistance to earth by 40%.

GroundIT™ is an easily applied product which produces lower steady state and stable grounding impedance. GroundIT™ produces a lower surge impedance which results in faster transient dissipation. Manufactured from environmentally safe and stable products, GroundIT™ has an excellent shelf life and long term storage has no effect on performance.

GroundIT™ creates a positive, low resistance, electrical connection between the grounding system and the earth. GroundIT™ has been manufactured to be compatible with standard copper grounding systems and standard field application methods. It can be used in connection with grounding grids to minimize step and touch potentials. In high soils with high resistance, GroundIT™ can be used to produce acceptable grounding impedance with reasonable size.

The versatility and ease of applying GroundIT™ to lower ground resistance allows for a variety of economical and practical ground system designs to be used.

GroundIT™ requires only minimum instruction for proper application. No special tools are needed. GroundIT™ is economical, easy to install and it works.

Ground resistance of 5/8" ground rod vs. GroundIT™

Hole Diameter	GroundIT™ required (in pounds per foot)	Percent Resistance Compared to 5/8" Ground Rod Only (100%)
4"	6.4	52%
6"	14.3	47%
8"	25.5	44%
10"	39.8	42%
12"	57.2	40%

VERTICAL INSTALLATION

Drill or dig the earth to desired diameter and depth. Suspend ground rod in center of hole and pour GroundIT™ to desired level. No tamping is necessary

Ground resistance of 4/0 AWG Wire vs. GroundIT™

Length of Wire	4/0 AWG Wire Only	Resistance of 4/0 AWG Wire & various diameters of GroundIT™			
		2"	3"	4"	6"
25'	100%	83%	78%	74%	69%
50'	100%	85%	81%	77%	73%
75'	100%	86%	82%	79%	75%
100'	100%	87%	83%	80%	77%
150'	100%	88%	84%	82%	78%
200'	100%	88%	85%	83%	79%
250'	100%	89%	85%	83%	80%
300'	100%	89%	86%	84%	80%

HORIZONTAL INSTALLATION

Pour GroundIT™ into horizontal trench until level of ground wire is reached. Install ground wire and add additional GroundIT™ until wire is covered to desired level. Cover with fill. No tamping is necessary. For ground grids spread GroundIT™ over the top of the grid until desired thickness is achieved. Cover with fill.