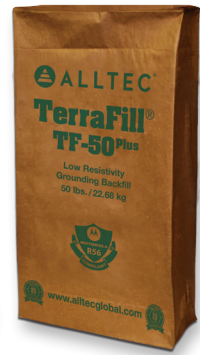
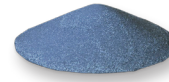




TerraFill® TF-50 PLUS

Low Resistivity Grounding Backfill



Grounding Protection

Part of THE ALLTEC PROTECTION PYRAMID®

FEATURES & BENEFITS:

- Made from natural mineral materials.
- Produces lower stable grounding impedance, and lower surge impedance resulting in faster transient dissipation
- Excellent shelf life with long-term performance
- Manufactured to be compatible with copper grounding systems and standard field application methods
- Can be used in connection with grounding grids to minimize step and touch potentials
- Produces acceptable grounding impedance in high-resistivity soils, within a reasonably sized area
- Versatile – applying TerraFill® TF-50 PLUS to lower the ground resistance of grounding equipment allows for a variety of earthing designs which might otherwise be impractical
- Self-compacting or mixed as slurry – comes in easily transportable 50 lb. (22.68 kg) bags, easily installed by one person

Product Description

TerraFill® TF-50 PLUS (Low Resistivity Grounding Backfill) provides a simple method of substantially lowering the earth resistance of grounding systems. When used with copper grounding equipment, contact resistance to earth is lowered by up to 63%.

TerraFill® TF-50 Plus produces lower steady state and stable grounding impedance, resulting in a reliable, low resistance, electrical connection between the grounding system and the earth.

Permanent

- Will not dissolve or decay with time
- Requires no maintenance
- Maintains constant resistance for the life of the system

Environmentally Friendly

- Does not affect soil or ground water
- Motorola R56 compliant

Use TerraFill® TF-50 PLUS with TerraDyne® Electrolytic Grounding Systems for ultra-stable, maintenance free grounding.

TerraFill®

P/N	Description
TF-50PLUS	TerraFill® TF-50 PLUS Grounding Backfill, 50 lb. (22.68 kg) Bag

Vertical Installation (Hole)

Estimated bags of TerraFill® TF-50 PLUS backfill around ground rods 1/2" to 3/4"						
Hole Diameter	Depth of Hole					
	6' (1.8m)	8' (2.4m)	10' (3.0m)	12' (3.6m)	17' (5.2m)	20' (6.1m)
3" (7.5cm)	1	1	1	2	2	2
4" (10.0cm)	1	2	2	2	3	3
5" (12.5cm)	2	2	3	4	5	5
6" (15.0cm)	2	3	4	4	7	8
7" (17.5cm)	3	4	5	6	9	10
8" (20.0cm)	4	6	7	8	11	13
9" (22.5cm)	5	7	8	10	14	16
10" (25.0cm)	6	8	9	12	17	20

Refer to installation instructions and local electrical codes for proper hole size in your area.

Horizontal Installation (Trench)

Estimated length of ground connector covered with each bag of TerraFill® TF-50 PLUS				
Trench Width	TerraFill® Thickness			
	1" (2.5cm)	2" (5.1cm)	3" (7.6cm)	4" (10.2cm)
4" (10.2cm)	28' (8.5m)	14' (4.2m)	9' (2.7m)	7' (2.1m)
6" (15.2cm)	18' (5.4m)	9' (2.7m)	6' (1.8m)	4' (1.2m)
8" (20.3cm)	14' (4.2m)	7' (2.1m)	4' (1.2m)	3' (0.9m)
10" (25.4cm)	11' (3.3m)	5' (1.5m)	3' (0.9m)	2' (0.6m)
12" (30.5cm)	9' (2.7m)	4' (1.2m)	3' (0.9m)	2' (0.6m)

Refer to installation instructions and local electrical codes for proper trench size in your area.