

# GEM Ground Enhancement Material, 11,36 kg, plastic bucket with locking lid

## CATALOG NUMBER

### GEM25ABKT



Ground Enhancement Material (GEM) is a superior conductive material that solves your toughest grounding problems. It is the ideal material to use in areas of poor conductivity, such as rocky ground, mountain tops and sandy soil. GEM dramatically reduces earth resistance and impedance measurements. Furthermore, GEM may reduce the size of the grounding system where conventional methods are unsatisfactory. Once installed, GEM is maintenance-free, not requiring periodic charging or the presence of water to maintain its conductivity.

Third-party testing has been completed to verify that GEM conforms to IEC® 62561-7. This standard introduces a benchmark for electrical performance and corrosion of earth enhancement materials that has been absent from the industry to date.

nVent ERICO offers GEM Calculator software that provides resistivity values for common GEM applications and can help estimate the amount of GEM required for an installation. It operates in four languages - English, Spanish, French and German - and performs calculations in Imperial or Metric units. The GEM Calculator is available for download on our website at [erico.com](http://erico.com).

## FEATURES

Maintains constant resistance for the life of the system once in its set form

Performs in all soil conditions even during dry spells

Does not require periodic charging treatments or placement

Does not require the continuous presence of water to maintain its conductivity

Fully sets within 3 days, fully cures within 28 days

Does not dissolve, decompose, or leach out with time

Non-corrosive

Reduces vandalism and theft since conductors are hard to remove from concrete

Easy-to-handle 25 lb (11.3kg) bags or buckets

Requires only one person to install

Exceeds IEC® 62561-7 which sets the benchmark for corrosion, leaching, sulfur content, and other environmental regulations

Complies to the U.S. Environmental Protection Agency (EPA) Toxicity Characteristic Leaching Procedure (TCLP), EPA test method 1311

Can be installed using trench or ground rod backfill methods

## PRODUCT ATTRIBUTES

Unit Weight: 11.36 kg

Packaging: Plastic bucket with locking lid

Complies With: IEC® 62561-7

**Estimated Bags of GEM for Backfilling Around Ground Rods to a Density of 63.5 lb/ft<sup>3</sup> (1,017 kg/m<sup>3</sup>)**

| Diameter of Hole |             | ft | m   | ft | m   | ft | m   | ft | m | ft | m   | ft | m   |
|------------------|-------------|----|-----|----|-----|----|-----|----|---|----|-----|----|-----|
| Inches           | Centimeters | 5  | 1.5 | 6  | 1.8 | 8  | 2.4 | 10 | 3 | 15 | 4.6 | 20 | 6.1 |
| 4                | 10.2        | 2  |     | 2  |     | 2  |     | 3  |   | 4  |     | 5  |     |
| 6                | 15.2        | 3  |     | 3  |     | 4  |     | 5  |   | 8  |     | 10 |     |
| 8                | 20.3        | 5  |     | 6  |     | 8  |     | 9  |   | 14 |     | 18 |     |
| 10               | 25.4        | 7  |     | 9  |     | 12 |     | 14 |   | 21 |     | 28 |     |
| 12               | 30.5        | 10 |     | 12 |     | 16 |     | 20 |   | 30 |     | 40 |     |

## WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

⚠ WARNING: This product can expose you to chemicals including silica and hexavalent chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### North America

+1.800.753.9221

Option 1 – Customer Care

Option 2 – Technical

Support

#### Europe

Netherlands:

+31 800-0200135

France:

+33 800 901 793

#### Europe

Germany:

800 1890272

Other Countries:

+31 13 5835404

#### APAC

Shanghai:

+ 86 21 2412 1618/19

Sydney:

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