



VIVEK EARTHING PVT. LTD.

Expert Advice & Reliable Solutions.

BFC (Back Fill Compound) Datasheet

Material Description:

- **Material:** A combination of Graphite, Carbon, Bentonite, and Magnesium Sulphate.
- **Standards:** Conforms to industry standards ensuring high performance and safety.

Specifications:

Quality Level	Composition
Standard	Bentonite, etc.
Elite	Carbon, Bentonite, etc.
Advance	Graphite, Carbon, Bentonite, etc.
Premium	Graphite, Carbon, Bentonite, Magnesium Sulphate, etc.

Key Properties:

- **Optimal Conductivity:** Superior grounding performance for stable power distribution.
- **Durability:** Enhanced strength and long-term protection.
- **Resistance:** High resistance to corrosion and environmental degradation.

Applications:

- **Improving Conductivity:** BFC enhances the conductivity between the earthing electrode and the surrounding soil. This is particularly useful in areas with high soil resistivity, such as rocky or sandy terrain.

- **Moisture Retention:**

It retains moisture around the electrode for extended periods, ensuring consistent grounding performance even in dry conditions.

- Some BFCs have anti-corrosive properties, protecting the earthing electrode from degradation and extending its lifespan.

- **Stabilizing Earthing Resistance:**

By providing a consistent low-resistance path, BFC minimizes fluctuations in earthing resistance due to environmental changes, such as seasonal variations.

- **Sensitive Installations:**

BFC is vital for critical infrastructure like telecom towers, data centers, and power stations, where stable grounding is essential for safety and equipment performance.

Application Process:

- **Site Preparation:**

Dig a pit for the earthing electrode as per design specifications (usually 3-5 meters deep).

- **Electrode Placement:**

Install the electrode (e.g., copper or GI rod) at the center of the pit.

- **BFC Application:**

Mix the BFC with water (if required) to form a slurry or use it in its dry form, depending on the manufacturer's instructions. Pour it around the electrode to fill the pit evenly.

- **Compaction:**

Compact the BFC to remove air gaps and ensure good contact between the electrode and the compound.

- **Backfilling:**

Cover the pit with soil after applying the BFC.

Advantages:

- **Safety:** Protects electrical systems from surges and faults.
- **Performance:** Ensures uninterrupted power and system stability.
- **Compliance:** Meets international standards for reliability and safety.



Quality Assurance:

- Thoroughly tested for material strength and durability.
- Certified anti-corrosion treatment for extended life.
- Supplied with material test certificates (MTC) for assurance.

Vivek Earthing Pvt. Ltd. An ISO 9001 - 2015 Certified Company

This datasheet provides detailed information about the **BFC(Back Fill Compound)** in various sizes, ensuring all relevant technical and application-specific details are covered for users and installers.