



PRODUCT DATA SHEET

80/20 Slag Roadbase

Product Code: RBU800

Definition

Blast furnace slag is the non-metallic product consisting essentially of silicates and aluminosilicates of calcium and other bases that is developed in a molten condition simultaneously with iron in a blast furnace.

Air-cooled blast furnace slag is a predominantly crystalline, solid rock-like material whereas granulated blast furnace slag is a glassy, granular product.

Process

Granulated blast furnace slag is produced when molten slag is passed through high volume water sprays, breaking the slag stream into small glass droplets before crystallisation occurs.

Air-cooled blast furnace slag is formed when molten slag is cooled in pits and allowed to crystallise under atmospheric conditions.

Description

Air-cooled blast furnace slag is crushed and screened into several sizes and blended with granulated blast furnace slag in nominally 80/20 volumetric proportions.

Applications

High quality (bound) roadbase.

Advantages

- ◆ Inherent cementitious properties
- ◆ Interlocking particle shape
- ◆ Ease of compaction
- ◆ Long term strength gain
- ◆ Lower tonnage required per cubic metre
- ◆ Effective utilisation of an industrial by-product conserving natural resources

Typical Grading

| SIEVE | % PASSING |
|---------|-----------|
| 26.5 mm | 100 |
| 19.0 mm | 95 - 100 |
| 13.2 mm | 75 - 90 |
| 6.7 mm | 60 - 70 |
| 2.36 mm | 40 - 50 |
| 425 um | 10 - 20 |
| 75 um | 1 - 5 |

Typical Physical Properties

| Attribute | unit | typical |
|---------------------------------------|------------------|-------------|
| Maximum Dry Density | t/m ³ | 2.0 - 2.2 |
| Optimum Moisture | % | 12 - 14 |
| Misshapen Particles (2:1) | % | 10 - 20 |
| Dry Strength | kN | 100 - 130 |
| Wet Strength | kN | 90 - 120 |
| Wet/Dry Variation | % | 5 - 20 |
| Acid soluble sulfate, SO ₃ | % | 0.3 - 0.6 |
| Liquid Limit | % | n/a |
| Plastic Limit | % | n/a |
| Plasticity Index | | non plastic |
| Modified Texas Triaxial | | 2.0 - 2.5 |
| UCS (7 days) | MPa | 1.0 - 2.0 |

Technical Services and Customer Enquiries

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