

Material and Application Guide

6AC Natural Gravel – Buno Road



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Material: Natural Gravel

Product: 6AC – Commercial

Location: American Aggregate, Buno Road Plant

Applications: Filter gravel in septic fields
Pipe bedding material
Coarse aggregate in portland cement concrete footings
Decorative stone for landscaping

Description: A coarse aggregate, produced by washing and screening natural gravel. The particles are sized from 1½" (37.5mm) to #4 mesh (4.75mm) and were formed by the natural disintegration of numerous types and colors of rocks by glacial or riverbed action into primarily round particles.



6AC Natural Gravel – Actual size shown

Material Properties: Commercial

6AC Natural Gravel is produced to commercial requirements

Gradation:

| U.S. Sieve | 1½" | 1" | ¾" | ½" | ⅜" | #4 | LBW |
|-----------------------|------------|-----------|-----------|-----------|-----------|----------|------------|
| Metric Sieve | 37.5mm | 25.0mm | 19.0mm | 12.5mm | 9.5mm | 4.75mm | |
| MDOT 6A Specification | 100 | 95-100 | - | 30-60 | - | 0-8 | 1.0 max |
| 2008 Average | 100 | 97 | 82 | 47 | 16 | 1 | 0.3 |

Physical Properties:

- MTM 110, Soft Particles (2008 Average) – 1.9%
- MTM 110, Clay-Ironstone Particles (2008 Average) – 0.3%
- MTM 110, Chert Particles (2008 Average) – 4.2%
- MTM 110, Sum of Soft Particles and Chert (2008 Average) – 6.4%
- ASTM C 29, Loose Unit Weight (2008 Average) – 100 lb/ft³
- ASTM C 29, Rodded Unit Weight (2008 Average) – 109 lb/ft³
- ASTM C 127, Bulk Specific Gravity Dry (2008 Average) – 2.64
- ASTM C 127, Bulk Specific Gravity SSD (2008 Average) – 2.67
- ASTM C 127, Absorption (2008 Average) – 1.2%
- ASTM C 142, Clay Lumps and Friable Particles in Aggregate – 0.1%
- ASTM C 123, Light Weight Particles (Chert [Less Than 2.40 sp gr SSD]) in Aggregate – 0.6%
- ASTM C 123, Light Weight Particles (Coal and Lignite) in Aggregate – 0.0%
- ASTM C 131, Abrasion and Impact in the Los Angeles Machine – 20%
- ASTM C 88, Soundness of Aggregate by Use of Magnesium Sulfate – 3% loss

General Usage Guide:

The 6AC Natural Gravel should be placed into the prepared area as shown in the design plans.

Field Estimating Quantities – Drainage Aggregate (In Place):

| | 10 sq. yd. | 20 sq. yd. | 50 sq. yd. | 100 sq. yd. | 200 sq. yd. | 500 sq. yd. | 1,000 sq. yd. |
|----------|------------|------------|------------|-------------|-------------|-------------|---------------|
| 6" Deep | 2 tons | 4 tons | 11 tons | 22 tons | 43 tons | 108 tons | 217 tons |
| 8" Deep | 3 tons | 6 tons | 14 tons | 29 tons | 58 tons | 144 tons | 289 tons |
| 10" Deep | 4 tons | 7 tons | 18 tons | 36 tons | 72 tons | 181 tons | 361 tons |
| 12" Deep | 5 tons | 9 tons | 22 tons | 43 tons | 87 tons | 217 tons | 433 tons |
| 18" Deep | 7 tons | 13 tons | 33 tons | 65 tons | 130 tons | 325 tons | 650 tons |

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