

Material and Application Guide

6AC Natural Gravel – Grange Hall Road



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Material: Natural Gravel

Product: 6AC – Commercial

Location: American Aggregate, Grange Hall 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	100	89	51	24	1	0.2

Physical Properties:

- MTM 110, Soft Particles (2008 Average) – 1.6%
- MTM 110, Clay-Ironstone Particles (2008 Average) – 0.3%
- MTM 110, Chert Particles (2008 Average) – 3.9%
- MTM 110, Sum of Soft Particles and Chert (2008 Average) – 5.8%
- ASTM C 29, Loose Unit Weight (Last Test) – 101 lb/ft³
- ASTM C 29, Rodded Unit Weight (Last Test) – 106 lb/ft³
- ASTM C 127, Bulk Specific Gravity Dry (Last Test) – 2.63
- ASTM C 127, Bulk Specific Gravity SSD (Last Test) – 2.66
- ASTM C 127, Absorption (Last Test) – 1.3%
- 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 – 0.7%
- ASTM C 123, Light Weight Particles (Coal and Lignite) in Aggregate – 0.4%
- ASTM C 131, Abrasion and Impact in the Los Angeles Machine – 21%
- 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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