

Group 1

Conditions & Specifications:

- Concrete slab in Arizona
- 6-in thick
- Exposed to moisture
- Specified strength of 4000 psi at 28 days
- Slump of 4 in. 1 in.
- No statistical data available

Coarse Aggregate:

- Smooth and rounded gravel
- 3/4 -in. nominal maximum size
- S.G. = 2.68 (SSD)
- Dry-rodded bulk density = 2789.1 lb/yd³ (103.3 lb/ft³)
- Absorption, *abs* = 1.2%
- Moisture content, *mc* = _____%

Fine Aggregate (Sand):

- Manufactured Sand
- S.G. = 2.64 (SSD)
- Fineness modulus, FM = 2.85
- Absorption, *abs* = 0.8%
- Moisture content, *mc* = _____%

Admixtures:

None

Group 2

Conditions & Specifications:

- Concrete footing for 200 ft tall containment structure
- Specified strength of 3000 psi at 28 days
- Slump of 3 in. 1 in.
- No statistical data available

Coarse Aggregate:

- Smooth and rounded gravel
- 3/4 -in. nominal maximum size
- S.G. = 2.68 (SSD)
- Dry-rodded bulk density = 2789.1 lb/yd³ (103.3 lb/ft³)
- Absorption, *abs* = 1.2%
- Moisture content, *mc* = _____%

Fine Aggregate (Sand):

- Manufactured Sand
- S.G. = 2.64 (SSD)
- Fineness modulus, FM = 2.85
- Absorption, *abs* = 0.8%
- Moisture content, *mc* = _____%

Admixtures:

None

Group 3

Conditions & Specifications:

- Concrete is to be used for cooling towers in Maryland
- Exposed to moderate chlorides and sulfates from sea-water environment
- Specified strength of 4000 psi at 28 days
- Slump of 5 in. 1 in.
- No statistical data available

Coarse Aggregate:

- Smooth and rounded gravel
- 3/4 -in. nominal maximum size
- S.G. = 2.68 (SSD)
- Dry-rodded bulk density = 2789.1 lb/yd³ (103.3 lb/ft³)
- Absorption, *abs* = 1.2%
- Moisture content, *mc* = _____%

Fine Aggregate (Sand):

- Manufactured Sand
- S.G. = 2.64 (SSD)
- Fineness modulus, FM = 2.85
- Absorption, *abs* = 0.8%
- Moisture content, *mc* = _____%

Admixtures:

None

Group 4

Conditions & Specifications:

- Concrete to be used for an intake structure in a fresh water reservoir in Southern California
- Exposed to severe sulfates from soils
- Specified strength of 5000 psi at 28 days
- Slump of 3 in. - 1 in.
- No statistical data available

Coarse Aggregate:

- Smooth and rounded gravel
- 3/4 -in. nominal maximum size
- S.G. = 2.68 (SSD)
- Dry-rodded bulk density = 2789.1 lb/yd³ (103.3 lb/ft³)
- Absorption, *abs* = 1.2%
- Moisture content, *mc* = _____%

Fine Aggregate (Sand):

- Manufactured Sand
- S.G. = 2.64 (SSD)
- Fineness modulus, FM = 2.85
- Absorption, *abs* = 0.8%
- Moisture content, *mc* = _____%

Admixtures:

None