Specific Gravity & Absorption of Coarse Aggregates ASTM C 127-88

CTL Job No.: | Boring: TP-6 | Date: 12/15/2014
Client: | Sample: 3+4 | By: RU
Project Name: | Depth: from 16,000,KSF TX | Checked: DC
Project No.:
Visual Classification:

Remarks: Brown Poorly Graded GRAVEL w/ Silt & Sand

Test Results

Wt of Oven Dry Rock in Air	7176	grams	(A)
Wt of Saturated Surface Dry Rock in Air	7388.9	grams	(B)
Wt of Saturated Rock in Water	4728.7	grams	(C)

Calculations

Bulk Specific Gravity (Oven Dry)	2.70		=A/(B-C)
Bulk Specific Gravity (Sat. Surface Dry)	2.78		=B/(B-C); (G_1)
Apparent Specific Gravity	2.93		=A/(A-C)
Absorption	2.97	%	=[(B-A)/A] x 100

Weighted Average of (+) & (-) #4 Sieve Material

% Retained on #4 Sieve	33	%	(P_1)
% Finer than #4 Sieve	67	%	(P_2)
Gs of Material Finer than #4 Sieve*	2.889		(G_2)
Average Specific Gravity**	2.85		=1/[(P_1/100G_1)+(P_2/100G_2)]

* The specific gravity on the portion passing the #4 sieve was determined by ASTM D-854 (pycnometer method).
** Bulk Specific Gravity (SSD) is used to calculate weighted average assuming that the aggregate is in a moist state.