

Issue Date: 01/31/2020

Submittal of Concrete Sand

ASTM Concrete Sand Product ID #2576 - Caltrans Fine Aggregate Product ID #2575

Pursuant to ASTM C33\C33M-16 and 2015 Caltrans Standard Specifications, the following is submitted:

SAMPLE GRADATION				
Method	CT 202		C136	
	CALTRANS TEST RESULT	CALTRANS LIMITS	ASTM TEST RESULT	ASTM LIMITS
Sieve Size	Percent Passing		Percent Passing	
3/8"	100	100	100	100
#4	100	95-100	100	95-100
#8	91	65-95	91	80-100
#16	X=58	48-68	58	50-85
#30	X=34	25-43	34	25-60
#50	X=16	10-22	14	5-30
#100	4	2-12	4	0-10
#200	1.1	0-8	1.1	0-3

TEST NAME	CALTRANS TEST METHOD	CALTRANS TEST RESULT	CALTRANS LIMIT	ASTM TEST METHOD	ASTM TEST RESULT	ASTM LIMIT
FM	---	---	---	C136	2.89	---
SPECIFIC GRAVITY (Dry, Gsb)	CT 207	2.563	---	C127	2.600	---
SPECIFIC GRAVITY (SSD)	CT 207	2.614	---	C127	2.644	---
SOUNDNESS (Na ₂ SO ₄ , %)	CT 214	2.0	0-10	C88	5.0	0-12
-#200 SIEVE (75 um, %)	D1140 ¹	1.6	---	C117	1.6	---
COAL\LIGNITE (%)	---	---	---	C123	0.1	0-0.5
CLAY LUMPS & FRIABLE PARTICLES (%)	---	---	---	C142	0.0	0-2
ABSORPTION (%)	CT 206	2.0	0-4.2	C127	1.7	---
ORGANIC IMPURITIES	CT 213	SATISFACTORY	SATISFACTORY	C40	SATISFACTORY	SATISFACTORY
SAND EQUIVALENT (%)	CT 217	87	>75	D2419	86	>75
DURABILITY INDEX (Df)	CT 229	69	>60	---	---	---
RESISTIVITY	CT 463	40,200	>5,000	---	---	---
pH	CT 463	7.44	4.5-9	---	---	---
SULFATE	CT 417	2.2 ppm	0-1,300	---	---	---
CHLORIDE	CT 422	1.9 ppm	0-650	---	---	---
ALKALI-SILICA REACTIVITY (ASR) ²	C1293 ²	NON-REACTIVE	NON-REACTIVE	C1293 ²	NON-REACTIVE	NON-REACTIVE

Notes:

1. ASTM Test Method
2. Per ASTM C33/C33M-16 - This test method is considered to be the most reliable procedure among ASTM test methods for the evaluation of aggregates for alkali-silica reaction and is substituted in lieu of ASTM C227, C289, and C1260. Refer to ASTM C33 Appendix Sections X1.3.1 to X1.3.6. Non-reactive = less than 0.04% length change within the prisms after 12 months.

Expires 12 months from date of issue