



Western Technologies Inc.
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PHYSICAL PROPERTIES OF AGGREGATES

Client **SOUTHWEST ROCK PRODUCTS**
ATTN STEVE HOOD
745 N GILBERT RD #124-304
GILBERT, AZ 85234

Date of Report **03-24-09**
Job No. **2149JL012**
Event / Invoice No. **C012-025** Lab No. **23471**
Authorized by **SRP/HOOD** Date **03-18-09**
Sampled by **WT/RANGEL** Date **03-18-09**
Submitted by **WT/RANGEL** Date **03-18-09**

Project **LABORATORY SERVICES**
Contractor --
Type / Use of Material **CONCRETE SAND**
Sample Source / Location **STOCKPILE/PLANT #1**
Testing Authorized :
Special Instructions :

Location **QUEEN CREEK, AZ**
Arch. / Engr. --
Supplier / Source **SOUTHWEST ROCK PRODUCTS/QUEEN CREEK**
Source / Location Desig. By **WT/RANGEL** Date **03-18-09**

TEST RESULTS

SIEVE ANALYSIS			PHYSICAL PROPERTIES				RESULTS	SPECS
<input checked="" type="checkbox"/> ASTM C136 <input type="checkbox"/> AASHTO T27 <input checked="" type="checkbox"/> ASTM C117 <input type="checkbox"/> AASHTO T11								
SIEVE	ACCUMULATIVE % PASSING	SPECIFICATION	UNIT WEIGHT & VOIDS <input type="checkbox"/> ASTM C29 <input type="checkbox"/> AASHTO T19 FINE AGGREGATE UNIT WEIGHT, KG/M ³ → <input type="checkbox"/> RODDING <input type="checkbox"/> JIGGING <input type="checkbox"/> LOOSE COARSE AGGREGATE UNIT WEIGHT, KG/M ³ → VOIDS, % →					
3/8"		100	SPECIFIC GRAVITY & ABSORPTION FINE AGGREGATE BULK SPECIFIC GRAVITY → <input type="checkbox"/> ASTM C128 <input type="checkbox"/> AASHTO T84 BULK SPECIFIC GRAVITY (SSD) → AGGREGATE DRIED APPARENT SPECIFIC GRAVITY → <input type="checkbox"/> YES <input type="checkbox"/> NO ABSORPTION, % →					
1/4"			COARSE AGGREGATE BULK SPECIFIC GRAVITY → <input type="checkbox"/> ASTM C127 <input type="checkbox"/> AASHTO T85 BULK SPECIFIC GRAVITY (SSD) → AGGREGATE DRIED APPARENT SPECIFIC GRAVITY → <input type="checkbox"/> YES <input type="checkbox"/> NO ABSORPTION, % →					
No. 4	100	95-100	SAND EQUIVALENT VALUE <input checked="" type="checkbox"/> ASTM D2419 <input type="checkbox"/> AASHTO T176 SE, % →				81	**
8	86	80-100	RESISTANCE TO DEGRADATION SMALL COARSE AGGREGATE GRADING 100 REV., %LOSS → <input type="checkbox"/> ASTM C131 <input type="checkbox"/> AASHTO T96 GRADING 500 REV., %LOSS →					
10	81		LARGE COARSE AGGREGATE GRADING 200 REV., %LOSS → <input type="checkbox"/> ASTM C535 GRADING 1000 REV., %LOSS →					
16	63	50-85	LIGHTWEIGHT PIECES <input type="checkbox"/> ASTM C123 <input type="checkbox"/> AASHTO T113 FINE AGGREGATE, % → COARSE AGGREGATE, % →					
30	40	25-60	CLAY LUMPS & FRIABLE PARTICLES <input type="checkbox"/> ASTM C142 <input type="checkbox"/> AASHTO T112 FINE AGGREGATE, % → COARSE AGGREGATE, % →					
40	26		FRACTURED FACES OF COARSE AGGREGATES BY WEIGHT <input type="checkbox"/> AZ 212 <input type="checkbox"/> FLH T507 <input type="checkbox"/> FAA ONE OR MORE FACES, % → TWO OR MORE FACES, % →					
50	16	5-30	DURABILITY INDEX <input type="checkbox"/> ASTM D3744 <input type="checkbox"/> AASHTO T210 D _c → PROCEDURE : A <input type="checkbox"/> COARSE B <input type="checkbox"/> FINE C <input type="checkbox"/> COARSE & FINE D _f →					
100	4	0-10	UNCOMPACTED VOID CONTENT <input type="checkbox"/> AZ 247 <input type="checkbox"/> ASTM C1252 METHOD VC, % →					
200	1.1	0-3.0	FINENESS MODULUS <input checked="" type="checkbox"/> ASTM C125 → 2.91 2.3-3.1					
LIQUID LIMIT & PLASTIC PROPERTIES <input type="checkbox"/> ASTM D4318 <input type="checkbox"/> AASHTO T89 & T90 METHOD SAMPLE AIR DRIED <input type="checkbox"/> YES <input type="checkbox"/> NO ESTIMATED % RETAINED ON NO 40			RESULTS	SPECS				
LIQUID LIMIT → PLASTIC LIMIT → PLASTICITY INDEX →								
ORGANIC IMPURITIES <input type="checkbox"/> ASTM C40 PLATE NO. → <input type="checkbox"/> AASHTO T21								
CLEANNES VALUE <input type="checkbox"/> CA 227 →								

Comments : **DEPENDENT ON APPLICABLE JOB SPECIFICATIONS

Copies to : CLIENT - (1)

THE SERVICES REFERRED TO HEREIN WERE PERFORMED IN ACCORDANCE WITH THE STANDARD OF CARE PRACTICED LOCALLY FOR THE REFERENCED METHOD(S) AND RELATE ONLY TO THE CONDITION(S) OR SAMPLE(S) TESTED AS STATED HEREIN. WESTERN TECHNOLOGIES INC. MAKES NO OTHER WARRANTY OR REPRESENTATION, EXPRESSED OR IMPLIED, AND HAS NOT CONFIRMED INFORMATION INCLUDING SOURCE OF MATERIALS SUBMITTED BY OTHERS.

REVIEWED BY *[Signature]* 3-24-09