



AGGREGATE SUBMITTAL
Report of Physical Properties

GRP Material Description: Unsize Bankrun

Report Date: August 1, 2023

GRP Material Code: SFIL

Reviewed by: Dan McDaniel

Source Location/Code: Perry / 590

Report No. 590SFIL00323

TEST RESULTS				SIEVE ANALYSIS		
Standard	PHYSICAL PROPERTIES		Result	ASTM C136 AASHTO T27		
ASTM C 29 AASHTO T19	Unit Weight	Unit Weight, lbs./cu.ft. =	125	Sieve Size	% Passing	Spec.
	Weight	Voids, % =	23	450 mm (18")		
		<input type="checkbox"/> Jigged <input type="checkbox"/> Loose <input checked="" type="checkbox"/> Rodded		375 mm (15")		
ASTM D1557 AASHTO T180	Modified Proctor	Max. density, lbs./cu.ft. =	142.5	300 mm (12")		
		Optimum Moisture, % =	4.4	250 mm (10")		
ASTM D698 AASHTO T99	Standard Proctor	Max. density, lbs./cu.ft. =	139.5	225 mm (9")		
		Optimum Moisture, % =	6	200 mm (8")		
ASTM D4318 AASHTO T89/90	Liquid Limit Plastic Limit Plasticity Index	Liquid Limit=	0	150 mm (6")		
		Plastic Limit=	0	125 mm (5")		
		Plasticity Index=	NP	100 mm (4")		
ASTM C131 AASHTO T96	L.A. Abrasion	Small Coarse Loss, % =		75.0 mm (3")	98	
		Grading/Revolutions, =		63.0 mm (2-1/2")		
ASTM C535	L.A. Abrasion	Large Coarse Loss, % =	29	50.0 mm (2")	92	
		Grading/Revolutions, =	3/1000	37.5 mm (1-1/2")	85	
ASTM C 128 AASHTO T84	Fine Specific Gravity & Absorption	Bulk Specific Gravity (dry) =		25.0 mm (1")	80	
		Bulk Specific Gravity, SSD =		19.0 mm (3/4")	75	
		Apparent Specific Gravity =		12.5 mm (1/2")	65	
		Absorption, % =		9.5 mm (3/8")	59	
ASTM C 127/128 AASHTO T85T84	Coarse/Fine Specific Gravity & Absorption	Bulk Specific Gravity (dry) =	2.607	6.3 mm (1/4")		
		Bulk Specific Gravity, SSD =	2.643	4.75 mm (No.4)	45	
		Apparent Specific Gravity =	2.705	2.36 mm (No.8)	34	
		Absorption, % =	1.4	2.00 mm (No.10)		
ASTM D2419 AASHTO T176	Sand Equivalent	Sand Equivalent, % =		1.18 mm (No.16)	26	
ASTM C 88 AASHTO T104	Soundness	Coarse Soundness Loss, % =	1	0.600 mm (No.30)		
		Magnesium No. of Cycles =	5	0.425 mm (No.40)		
	Soundness	Fine Soundness Loss, % =		0.300 mm (No.50)	19	
		Magnesium No. of Cycles =		0.180 mm (No.80)		
ASTM C 1252 AASHTO T304	Fine Aggregate Angularity	Uncompacted Voids, % =		0.150 mm (No.100)	12	
		Method C (as received material)		0.075 mm (No.200)	7.5	
ASTM C40 AASHTO T21	Organic Impurities	Coarse Aggregate, % =		ASTM D422		
		Fine Aggregate, % =		Hydrometer =		
ASTM C142 AASHTO T112	Clay / Friable Particles	Coarse Aggregate, % =		ASTM C566 AASHTO T255		
		Fine Aggregate, % =		Moisture Content, % =		
ASTM C123 AASHTO T113	Lightweight Pieces	Coarse Aggregate, % =		ASTM C136 AASHTO T27		
		Fine Aggregate, % =		Fineness Modulus (FM) =		
ASTM D1883 AASHTO T193	CBR	Surcharge = 10 lbs CBR @ 0.1"=	53	AASHTO M145	A1A	
		Swell% = 0.0% CBR @ 0.2"=	60	Classification of Soils =		
ASTM D5821	Fractured Face	1 or 2 Faces =	1	ASTM D4791 Ratio =	1:5	
		Fractured Face, % =	64	Flat & Elongated =	0.8	
ASTM D2487	Soil Classification	Group Symbol =				
		Group Name =				
ASTM D2488	Soil Description & Identification	Group Symbol =				
		Group Name =				

For technical support please call the Point of the Mountain Laboratory: SLC 801-281-7958, Orem 801-765-7958