



**AGGREGATE SUBMITTAL**

**Report of Physical Properties and Aggregate Target Submittal**

GRP Material Description: 1.5" UTBC

Report Date: February 23, 2026

GRP Material Code: GRAD

Reviewed by: Dan McDaniel

Source Location/Code: Black Rock / 567

Report No. 567GRAD00226

TEST RESULTS					
Standard	PHYSICAL PROPERTIES		Result	Test Spec.	
ASTM C 29 AASHTO T19	Unit Weight	Unit Weight, lbs./cu.ft. =	112.0		
		Voids, % =	31		
		<input type="checkbox"/> Jigged <input type="checkbox"/> Loose <input checked="" type="checkbox"/> Rodded			
ASTM D1557 AASHTO T180	Modified Proctor	Max. density, lbs./cu.ft. =	144.2		
		Optimum Moisture, % =	5.1		
ASTM D698 AASHTO T99	Standard Proctor	Max. density, lbs./cu.ft. =	141.9		
		Optimum Moisture, % =	6.2		
ASTM D4318 AASHTO T89/90	Liquid Limit Plastic Limit Plasticity Index	Liquid Limit=			
		Plastic Limit=			
		Plasticity Index=	NP		
ASTM C131 AASHTO T96	L.A. Abrasion	Small Coarse Loss, % =	17		
		Grading/Revolutions, =			
ASTM C535	L.A. Abrasion	Large Coarse Loss, % =			
		Grading/Revolutions, =			
ASTM C 128/127 AASHTO T84/85	Combined Specific Gravity & Absorption	Bulk Specific Gravity (dry) =	2.594		
		Bulk Specific Gravity, SSD =	2.62		
		Apparent Specific Gravity =	2.663		
		Absorption, % =	1.0		
ASTM C 127 AASHTO T85	Coarse Specific Gravity & Absorption	Bulk Specific Gravity (dry) =			
		Bulk Specific Gravity, SSD =			
		Apparent Specific Gravity =			
		Absorption, % =			
ASTM D2419 AASHTO T176	Sand Equivalent	Sand Equivalent, % =	28		
ASTM C 88 AASHTO T104	Soundness	Coarse Soundness Loss, % =	2		
		Sodium No. of Cycles =	5		
	Soundness	Fine Soundness Loss, % =			
		Sodium No. of Cycles =			
ASTM C 1252 AASHTO T304	Fine Aggregate Angularity	Uncompacted Voids, % =	45.8		
		Method C (as received material)			
ASTM C40 AASHTO T21	Organic Impurities	Coarse Aggregate, % =			
		Fine Aggregate, % =			
ASTM C142 AASHTO T112	Clay / Friable Particles	Coarse Aggregate, % =	0		
		Fine Aggregate, % =	0		
ASTM C123 AASHTO T113	Lightweight Pieces	Coarse Aggregate, % =	0		
		Fine Aggregate, % =	0		
ASTM D1883 AASHTO T193	CBR	Surcharge = 10 lbs CBR @ 0.1"=	84		
		Swell% = 0.0% CBR @ 0.2"=	109		
AASHTO 335	Fractured Face	1 or 2 Faces =	1	2	
		Fractured Face, % =	94	89	
ASTM D2487	Soil Classification	Group Symbol =			
		Group Name =			
ASTM D2488	Soil Description & Identification	Group Symbol =			
		Group Name =			

SIEVE ANALYSIS		
ASTM C136	AASHTO T27	
Sieve Size	Target % Passing	Spec.
300 mm (12")		
250 mm (10")		
225 mm (9")		
200 mm (8")		
150 mm (6")		
125 mm (5")		
100 mm (4")		
75.0 mm (3")		
63.0 mm (2-1/2")		
50.0 mm (2")		
37.5 mm (1-1/2")	100	
25.0 mm (1")	90	81-99
19.0 mm (3/4")	80	71-89
12.5 mm (1/2")	68	59-77
9.5 mm (3/8")	61	52-70
6.3 mm (1/4")		
4.75 mm (No.4)	45	38-52
2.36 mm (No.8)	35	
2.00 mm (No.10)	33	
1.18 mm (No.16)	25	20-30
0.600 mm (No.30)	22	
0.425 mm (No.40)	19	
0.300 mm (No.50)	18	
0.180 mm (No.80)		
0.150 mm (No.100)	14	
0.075 mm (No.200)	11	8-14
ASTM D422		
Hydrometer =		
ASTM C566 AASHTO T255		
Moisture Content, % =		
ASTM C136 AASHTO T27		
Fineness Modulus (FM) =		
AASHTO M145		
Classification of Soils =		
ASTM D4791 Ratio =	5 to 1	
Flat & Elongated, % =	0	