



AGGREGATE SUBMITTAL
Report of Physical Properties

GRP Material Description: UTBC 1.5" State Spec **Report Date:** January 22, 2026
GRP Material Code: GRAD **Reviewed by:** Dan McDaniel
Source Location/Code: Mona/606 **Report No.:** 506GRAD00126

TEST RESULTS				
Standard	PHYSICAL PROPERTIES		Result	Test Source
ASTM C 29 AASHTO T19	Unit Weight	Unit Weight, lbs./cu.ft. =	116	
		Voids, % =	29	
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ASTM D1557 AASHTO T180	Modified Proctor	Max. density, lbs./cu.ft. =	145.0	
		Optimum Moisture, % =	5.4	
ASTM D698 AASHTO T99	Standard Proctor	Max. density, lbs./cu.ft. =	139.5	
		Optimum Moisture, % =	7.1	
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, % =	18	
		Grading/Revolutions, =	B	
ASTM C535	L.A. Abrasion	Large Coarse Loss, % =		
		Grading/Revolutions, =		
ASTM C 128 AASHTO T84	Fine Specific Gravity & Absorption	Bulk Specific Gravity (dry) =		
		Bulk Specific Gravity, SSD =		
		Apparent Specific Gravity =		
		Absorption, % =		
ASTM C 127 AASHTO T85	Coarse Specific Gravity & Absorption	Bulk Specific Gravity (dry) =	2.619	
		Bulk Specific Gravity, SSD =	2.645	
		Apparent Specific Gravity =	2.691	
		Absorption, % =	1	
ASTM D2419 AASHTO T176	Sand Equivalent	Sand Equivalent, % =	25	
ASTM C 88 AASHTO T104	Soundness	Coarse Soundness Loss, % =	2	
		Sodium No. of Cycles =	5	
	Soundness	Fine Soundness Loss, % =		
		Magnesium No. of Cycles =		
ASTM C 1252 AASHTO T304	Fine Aggregate Angularity	Uncompacted Voids, % =	47.1	
		Method C (as received material)		
ASTM C40 AASHTO T21	Organic Impurities	Coarse Aggregate, % =	1	
		Fine Aggregate, % =		
ASTM C142 AASHTO T112	Clay / Friable Particles	Coarse Aggregate, % =	0.3	
		Fine Aggregate, % =		
ASTM C123 AASHTO T113	Lightweight Pieces	Coarse Aggregate, % =	0	
		Fine Aggregate, % =		
ASTM D1883 AASHTO T193	CBR	Surcharge = 10 lbs CBR @ 0.1" =	75	
		Swell% = 0.0% CBR @ 0.2" =	102	
ASTM D5821	Fractured Face	1 or 2 Faces =	1	2
		Fractured Face, % =	98	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	% Passing
450 mm (18")	
375 mm (15")	
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")	91
19.0 mm (3/4")	85
12.5 mm (1/2")	70
9.5 mm (3/8")	59
6.3 mm (1/4")	
4.75 mm (No.4)	40
2.36 mm (No.8)	
2.00 mm (No.10)	
1.18 mm (No.16)	25
0.600 mm (No.30)	
0.425 mm (No.40)	
0.300 mm (No.50)	
0.180 mm (No.80)	
0.150 mm (No.100)	
0.075 mm (No.200)	10.8
ASTM D422	
Hydrometer =	
ASTM C566 AASHTO T255	
Moisture Content, % =	
ASTM C136 AASHTO T27	
Fineness Modulus (FM) =	
AASHTO M145	
Classification of Soils =	A-1-a
ASTM D4791 Ratio =	5to1
Flat & Elongated =	0