GENEVA ROCK PRODUCTS, INC.
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AGGREGATE SUBMITTAL

Report of Physical Properties and Aggregate Target Submittal

GRP Material Description: UTBC UDOT / 1.5"APWA **Report Date:** January 29, 2024
GRP Material Code: GRAD **Reviewed by:** Dan McDaniel
Source Location/Code: Hansen Pit North / 527 **Report No.** 527GRAD00224

TEST RESULTS

Standard	PHYSICAL PROPERTIES		Result	Test Spec.
ASTM C 29	Unit	Unit Weight, lbs./cu.ft. =	118.0	
AASHTO T19	Weight	Voids, % =	26	
		☐ Jigged ☐ Loose ☑ Rodded		
ASTM D1557	Modified	Max. density, lbs./cu.ft. =	136.5	
AASHTO T180	Proctor	Optimum Moisture, % =	6.3	
ASTM D698	Standard	Max. density, lbs./cu.ft. =	132.7	
AASHTO T99	Proctor	Optimum Moisture, % =	7.5	
ASTM D4318	Liquid Limit	Liquid Limit=	0	
AASHTO T89/90	Plastic Limit	Plastic Limit=	0	
	Plasticity Index	Plasticity Index=	NP	
ASTM C131	L.A.	Small Coarse Loss, % =	24	
AASHTO T96	Abrasion	Grading/Revolutions, =	B/500	
ASTM C535	L.A.	Large Coarse Loss, % =		
	Abrasion	Grading/Revolutions, =		
	Combined	Bulk Specific Gravity (dry) =	2.557	
ASTM C 128/127	Specific	Bulk Specific Gravity, SSD =	2.579	
AASHTO T84/85	Gravity &	Apparent Specific Gravity =	2.617	
	Absorption	Absorption, % =	0.9	
	Coarse	Bulk Specific Gravity (dry) =		
ASTM C 127	Specific	Bulk Specific Gravity, SSD =		
AASHTO T85	Gravity &	Apparent Specific Gravity =		
	Absorption	Absorption, % =		
ASTM D2419	Sand	Sand Equivalent, % =	32	
AASHTO T176	Equivalent			
	Soundness	Coarse Soundness Loss, % =	1	
ASTM C 88		Sodium No. of Cycles =	5	
AASHTO T104	Soundness	Fine Soundness Loss, % =	1.0	
		Sodium No. of Cycles =	5	
ASTM C 1252	Fine Aggregate	Uncompacted Voids, % =		
AASHTO T304	Angularity	Method C (as received material)		
ASTM C40	Organic	Coarse Aggregate, % =		
AASHTO T21	Impurities	Fine Aggregate, % =		
ASTM C142	Clay / Friable	Coarse Aggregate, % =	0	
AASHTO T112	Particles	Fine Aggregate, % =	0	
ASTM C123	Lightweight	Coarse Aggregate, % =	0	
AASHTO T113	Pieces	Fine Aggregate, % =	0	
ASTM D1883	CBR	Surcharge = 10 lbs CBR @ 0.1"=	65	
AASHTO T193		Swell% = 0.0% CBR @ 0.2"=	106	
AASHTO 335	Fractured Face	1 or 2 Faces =	1	2
		Fractured Face, % =	100	97
ASTM D2487	Soil Classification	Group Symbol =		
		Group Name =		
ASTM D2488	Soil Description &	Group Symbol =		
	Identification	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")	91	82-100
19.0 mm (3/4")	85	76-94
12.5 mm (1/2")	79	70-88
9.5 mm (3/8")	73	64-82
6.3 mm (1/4")		
4.75 mm (No.4)	52	45-59
2.36 mm (No.8)		
2.00 mm (No.10)	32	
1.18 mm (No.16)	25	20-30
0.600 mm (No.30)		
0.425 mm (No.40)	19	
0.300 mm (No.50)	17	
0.180 mm (No.80)		
0.150 mm (No.100)	11	
0.075 mm (No.200)	9.1	6.1-12.1
ASTM D422		
Hydrometer =		
ASTM C566 AASHTO T255		
Moisture Content, % =		
ASTM C136 AASHTO T27		
Fineness Modulus (FM) =		
AASHTO M145		
Classification of Soils =	A1A	
ASTM D4791 Ratio =	5:1	
Flat & Elongated, % =	0	