

A photograph of several large, conical piles of sand or aggregate material. In the background, there are industrial structures, including a yellow metal framework and a conveyor belt system. The scene is set against a clear blue sky. The entire image is reflected in a dark blue, glossy surface at the bottom, creating a symmetrical effect.

PREFERRED SANDS PRODUCT GUIDE

Preferred Sands of Genoa (Genoa, NE)

TESTING DATA REFERENCES: STIMLAB: 11301; PROPTESTER: 400-13-02-35-02-A, 400-08-01-05-08-B, 400-10-03-19-06-D, 400-10-04-15-02, 101-15-03-43-16-A, 101-15-03-43-16-B, 101-15-03-43-16-C, 101-15-10-65-04, 101-17-09-95-21-B

PROPERTIES	UNITS/METHOD	16/30		20/40		30/50		40/70		50/140	
		SIEVE NO.	% RETAINED	SIEVE NO.	% RETAINED	SIEVE NO.	% RETAINED	SIEVE NO.	% RETAINED	SIEVE NO.	% RETAINED
Typical Sieve Analysis		16	0.5	20	0.4	30	0.3	40	1.8	50	0.6
		18	99.4	25	96.3	35	96.6	45	98.3	80	99.3
		20		30		40		50		100	
		25		35		45		60		120	
		30	40	50	70	140					
		40	0.1	50	3.3	70	2.9	100	0.0	200	0.0
		Pan	<1	Pan	<1	Pan	<1	Pan	<1	Pan	<1
Sphericity	Krumbein	0.7		0.7		0.7		0.8		0.7	
Roundness	Krumbein	0.7		0.7		0.7		0.8		0.8	
Turbidity	NTU	9		8		34		45		10	
Mean Particle Diameter	mm	0.920		0.595		0.446		0.336		0.228	
Bulk Density	g/cc	1.48		1.51		1.51		1.51		1.50	
Bulk Density	lb/ft ³	92.03		93.91		94.17		94.23		93.81	
Specific gravity	g/cc	2.50		2.51		2.70		2.61		2.50	
Crush		3K		5K		6K		8K		11K	
Closure Stress (PSI)	PSI	Conductivity (md-ft)	Permeability (Darcy)	Conductivity (md-ft)	Permeability (Darcy)	Conductivity (md-ft)	Permeability (Darcy)	Conductivity (md-ft)	Permeability (Darcy)	Conductivity (md-ft)	Permeability (Darcy)
	1000	8844	460	5869	280	3294	162	2057	101	806	41
	2000	4362	236	5205	253	2533	129	1878	101	643	33
	4000	1193	70	3020	153	1350	71	1120	65	317	17
	6000	363	22	903	49	552	29	405	25	107	6
	8000	170	11	250	14	154	8	165	11	30	2

Preferred Sands of Arizona (Sanders, AZ)

TESTING DATA REFERENCES: STIMLAB: 7756, 9962, 11103; PROPTESTER: 101-15-06-46-05, 101-15-06-59-02-A, 101-15-10-59-13-A, 101-15-10-59-13-B, 101-17-08-95-22-A, 101-17-08-95-22-B

PROPERTIES	UNITS/METHOD	12/20		16/30		20/40		30/50		40/70		50/140	
		SIEVE NO.	% RETAINED	SIEVE NO.	% RETAINED	SIEVE NO.	% RETAINED	SIEVE NO.	% RETAINED	SIEVE NO.	% RETAINED	SIEVE NO.	% RETAINED
Typical Sieve Analysis		12	0.0	16	1.3	20	3.5	30	5.1	40	1.6	50	3.5
		14	99.1	18	97.9	25	96.1	35	94.9	45	98.4	80	96.6
		16		20		30		40		100			
		18		25		35		45		60		120	
		20	30	40	50	70	140						
		30	0.6	40	0.8	50	0.3	70	0.0	100	0.0	200	0.0
		Pan	<1	Pan	<1	Pan	<1	Pan	<1	Pan	<1	Pan	<1
Sphericity	Krumbein	0.7		0.7		0.7		0.8		0.7		0.7	
Roundness	Krumbein	0.6		0.7		0.6		0.6		0.7		0.7	
Turbidity	NTU	16		91		104		18		37		69	
Mean Particle Diameter	mm	1.191		0.883		0.654		0.489		0.338		0.238	
Bulk Density	g/cc	1.50		1.55		1.54		1.49		1.47		1.45	
Bulk Density	lb/ft ³	93.88		96.67		96.23		92.97		91.71		90.40	
Specific gravity	g/cc	2.59		2.65		2.65		2.63		2.61		2.60	
Crush		4K		6K		7K		8K		9K		11K	
Closure Stress (PSI)	PSI	Conductivity (md-ft)	Permeability (Darcy)	Conductivity (md-ft)	Permeability (Darcy)	Conductivity (md-ft)	Permeability (Darcy)	Conductivity (md-ft)	Permeability (Darcy)	Conductivity (md-ft)	Permeability (Darcy)	Conductivity (md-ft)	Permeability (Darcy)
	1000	22322	1120	12455	629	8036	406	2588	144	1539	80	—	—
	2000	17893	922	10208	533	5617	294	2148	122	1321	71	—	—
	4000	8537	464	4568	254	2522	141	1346	77	903	50	—	—
	6000	3595	206	1890	112	1241	73	786	46	438	26	—	—
	8000	1585	97	803	51	445	28	431	26	190	12	—	—

Preferred West Texas (Monahans, TX)

TESTING DATA REFERENCES: PROPTESTER: 101-17-03-46-09,
400-17-03-63-08-I,101-17-03-46-08-A, 400-17-03-63-08-I

PROPERTIES	UNITS/METHOD
Typical Sieve Analysis	
Sphericity	Krumbein
Roundness	Krumbein
Turbidity	NTU
Mean Particle Diameter	mm
Bulk Density	g/cc
Bulk Density	lb/ft ³
Specific gravity	g/cc
Crush	
Closure Stress (PSI)	PSI
	1000
	2000
	4000
	6000
8000	

40/70		70/140	
SIEVE NO.	% RETAINED	SIEVE NO.	% RETAINED
40	0.1	70	2.8
45		80	
50	96.5	100	97.2
60		120	
70		140	
100	3.3	200	0.0
Pan	<1	Pan	<1
	0.8		0.7
	0.8		0.9
	15		20
	0.277		0.168
	1.49		1.45
	92.8		90.36
	2.66		2.65
	7K		10K
Conductivity (md-ft)	Permeability (Darcy)	Conductivity (md-ft)	Permeability (Darcy)
1285	62	603	29
1140	56	503	24
769	39	254	13
342	18	70	4
161	9	21	1

Preferred South Texas (Poteet, TX)

TESTING DATA REFERENCES: PROPTESTER: 101-17-03-88-10,
400-17-03-63-08-I, 101-17-01-85-07-B, 400-17-03-63-08-I

40/70		70/140	
SIEVE NO.	% RETAINED	SIEVE NO.	% RETAINED
40	0.8	70	0.1
45		80	
50	98.7	100	99.0
60		120	
70		140	
100	0.4	200	0.8
Pan	<1	Pan	<1
	0.7		0.7
	0.6		0.6
	22		32
	0.306		0.163
	1.39		1.38
	86.45		86.26
	2.65		
	5K		9K
Conductivity (md-ft)	Permeability (Darcy)	Conductivity (md-ft)	Permeability (Darcy)
1419	66	612	28
1200	56	420	19
488	25	196	10
137	7	74	4
32	2	26	1

Preferred owns one of the largest in-basin sand reserves in North America—our strategic locations and last mile solutions enable us to offer significant delivered cost savings to our customers.

For more information, please call Customer Service at 855-372-2435 or 855-FRAC-HELP, or contact us at sandsales@preferred.com

DUE TO SUBJECTIVITY IN TESTING PROCEDURES, VALUES MAY VARY.

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