CURIMBABA PROPPANTS

SINTEX NORTH AMERICA
www.sintexminerals.com

SinterLite Bauxite

Sieve Analysis

% Retained

Sieves	12/18	16/30	20/40	30/50	40/70
#12	4	-	-	-	-
#14	47	-	-	-	-
#16	46	2	-	-	-
#18	3	23	-	-	-
#20	-	57	4	-	-
#25	-	15	38	-	-
#30	-	3	44	5	-
#35	-	-	14	24	-
#40	-	-	-	38	4
#50	-	-	-	24	56
#60	-	-	-	33	22
#70	-	-	-	-	13
#80	-	-	-	-	5
Fines	0	0	0	0	0
Mean Diameter (mm)	1.430	0.943	0.702	0.460	0.324

Chemical Analysis

%	
Al_2O_3	71.0
Fe_2O_3	13.0
SiO_2	12.5
TiO_2	1.8
Others	1.7

Other Properties

Sphericity & Roundness	-	0.9x0.9
Bulk Density	lb/ft³	1.82
	g/cm³	114
Apparent Density	g/cm³	3.33
Absolute Density	g/cm³	3.47
Turbidity	FTU	62
Acid Solubility	%	5.9

Crush Resistence Stress psi, % fines

	12/18	16/30	20/40	30/50	40/70
7,500 psi	15.3	4.1	1.6	2.0	1.0
10,000 psi		8.8	4.0	4.2	2.5
12,500 psi			7.6	8.6	4.8

Safety Data Sheet Requests via the website:
intranet.infobasys.com.br/Produto_FSM/Curimbaba/FSM_pt.nsf/wPortal?OpenPage).

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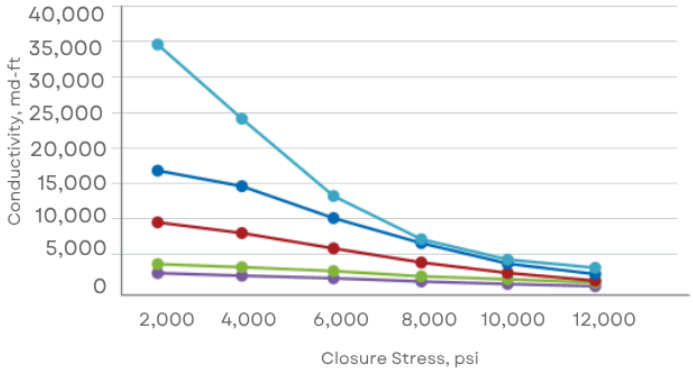
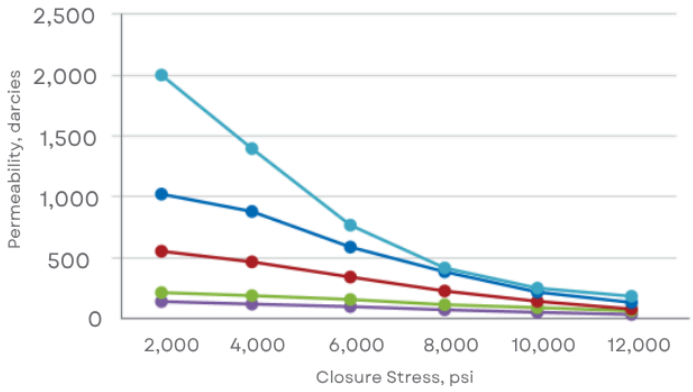
SinterLite Bauxite



SinterLite Bauxite - Conductivity

md-ft - 2% KCl - 2lb/ft² @250°F

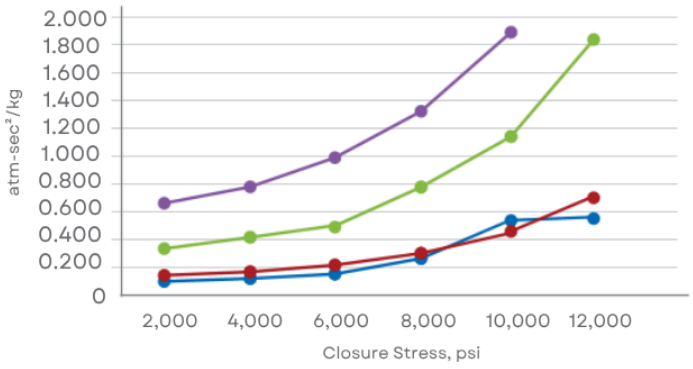
	2,000	4,000	6,000	8,000	10,000	12,000
10/20	34,018	23,124	12,888	6,941	3,994	2,847
16/30	16,509	14,124	9,834	6,439	3,488	2,033
20/40	9,249	7,526	5,515	3,643	2,061	1,100
30/60	3,308	2,759	2,299	1,753	1,252	773
40/80	2,044	1,644	1,274	904	576	343



SinterLite Bauxite - Permeability

darcies - 2% KCl - 2lb/ft² @250°F

	2,000	4,000	6,000	8,000	10,000	12,000
10/20	2,013	1,447	847	474	283	209
16/30	1,012	893	643	436	244	147
20/40	563	472	355	243	142	78.0
30/60	205	175	150	117	85.8	54.2
40/80	124	102	80.7	58.5	38.1	23.2



SinterLite Bauxite - Beta Factor

atm-sec²/kg - 2lb/ft² @300°F

	2,000	4,000	6,000	8,000	10,000	12,000
16/30	0.093	0.113	0.144	0.259	0.550	0.575
20/40	0.136	0.161	0.213	0.301	0.473	0.713
30/60	0.330	0.410	0.520	0.780	1.130	1.850
40/80	0.660	0.781	0.994	1.337	1.892	-