CURIMBABA PROPPANTS

MINERAÇÃO CURIMBABA

www.curimbaba.com.br

SinterBall Lock Bauxite

Sieve Analysis

% Retained	16/30			20/40			30/60		
Sieves	**R1**	**R1.5**	**R2**	**R1**	**R1.5**	**R2**	**R1**	**R2**	**R3**
#18	18	17	26	-	-	-	-	-	-
#20	66	56	53	4	3	3	-	-	-
#25	13	17	17	36	32	34	-	-	-
#30	3	6	2	39	37	35	-	-	-
#35	-	-	-	19	24	24	-	-	-
#40	-	4	2	2	3	3	41	42	42
#50	-	-	-	-	1	1	46	45	45
#60	-	-	-	-	-	-	9	9	9
#70	-	-	-	-	-	-	3	3	3
#100	-	-	-	-	-	-	1	1	1
Fines	0	0	0	0	0	0	0	0	0
Mean Diameter (mm)	0.927	0.899	0.934	0.690	0.670	0.676	0.411	0.413	0.414

Crush Resistence Stress psi, % fines

	16/30			20/40			30/60		
	R1	**R1.5**	**R2**	**R1**	**R1.5**	**R2**	**R1**	**R2**	**R3**
12,500 psi	9.7	13.9	15.8	5.6	5.5	8.9	4.1	5.8	8.0

Chemical Analysis

%	
Al_2O_3	73.7
Fe_2O_3	14.8
SiO_2	6.4
TiO_2	1.9
Others	3.2

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

Other Properties

Sphericity & Roundness	-	0.85x0.85
Bulk Density	lb/ft³	1.90
	g/cm³	119
Apparent Density	g/cm³	3.60
Absolute Density	g/cm³	3.67
Turbidity	FTU	122
Acid Solubility	%	6.1

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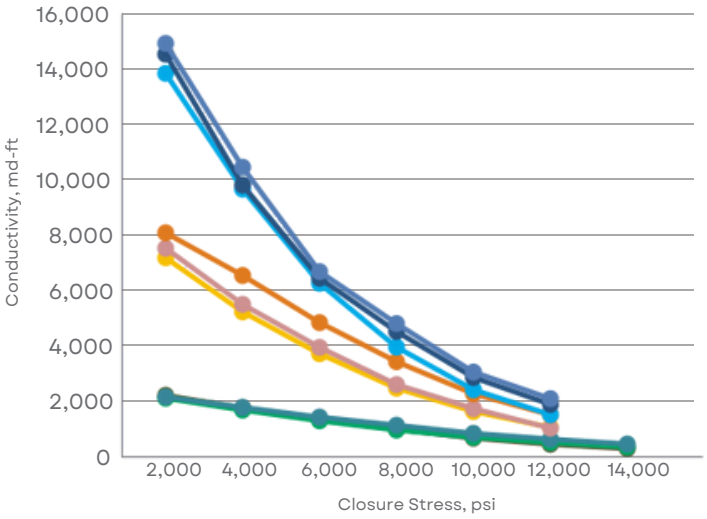
SinterBall Lock Bauxite

SinterBall Lock Bauxite - Conductivity

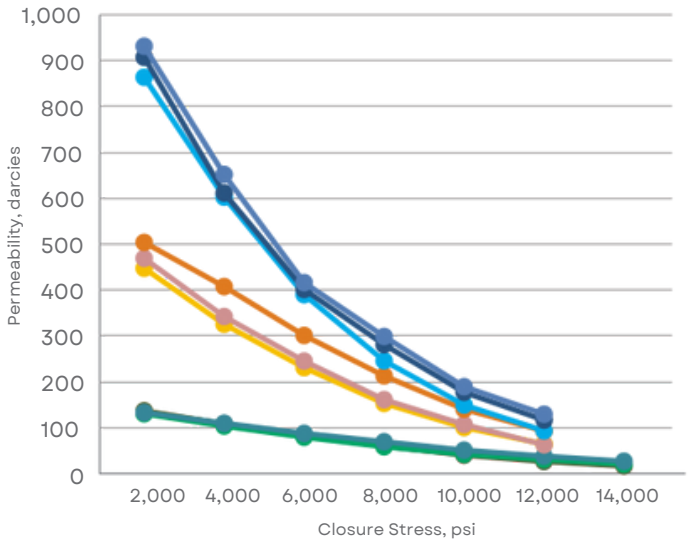
md-ft - 2% KCl - 2lb/ft² @250°F



	2,000	4,000	6,000	8,000	10,000	12,000	14,000
16/30 R1	14,448	10,117	6,466	4,647	2,952	2,022	-
16/30 R1.5	14,071	9,492	6,235	4,371	2,763	1,822	-
16/30 R2	13,400	9,350	6,059	3,825	2,334	1,459	-
20/40 R1	7,823	6,331	4,682	3,316	2,191	1,457	-
20/40 R1.5	7,286	5,320	3,817	2,515	1,676	990	-
20/40 R2	6,951	5,059	3,594	2,387	1,573	1,015	-
30/60 R1	2,080	1,718	1,377	1,093	809	607	435
30/60 R2	2,037	1,621	1,246	924	668	494	335
30/60 R3	2,137	1,695	1,286	952	640	426	274

SinterBall Lock Bauxite - Permeability

darcies - 2% KCl - 2lb/ft² @250°F



	2,000	4,000	6,000	8,000	10,000	12,000	14,000
16/30 R1	893	649	432	322	211	148	-
16/30 R1.5	868	607	414	301	197	133	-
16/30 R2	827	605	406	266	169	108	-
20/40 R1	491	411	313	229	156	107	-
20/40 R1.5	457	344	253	173	119	72.7	-
20/40 R2	434	327	239	164	112	74.4	-
30/60 R1	131	114	95	79	60	48	36
30/60 R2	129	109	89	68	51	40	28
30/60 R3	132	111	88	67	47	33	22