

BAUXITE

Table for comparisons among bauxite CRM certified values. For specific CRM, access its certificate by clicking the CRM code.

CRM code	BXPA-1*	BXPA-2	BXPA-3*	BXPA-4	BXPA-5	BXPA-6	BXMG-1*	BXMG-2	BXMG-3*	BXMG-4	BXMG-5	BXMG-6	BXSP-1	BXGO-1	BXGO-2	BXBA-3	BXBA-4
Description	Bauxite (Juruti)	Bauxite (Trombetas)	Bauxite (Paragominas)	Bauxite (Miltônia)	Bauxite (Juruti)	Bauxite (Trombetas)	Bauxite (Itamarati)	Bauxite (Miraf)	Bauxite (Monjolo)	Bauxite (Poços)	Bauxite (Monte Alegre)	Bauxite (Itamarati)	Bauxite (Bela Vista)	Bauxite (Barro Alto)	Bauxite (Barro Alto)	Bauxite (Baixão de Ipiúna)	Bauxite (Baixão de Ipiúna)
Unit size	120 g	100 g	105 g	110 g	105 g	110 g	120 g	135 g	120 g	95 g	110 g	100 g	100 g	120 g	90 g	110 g	100 g
Certified Values (mass fractions, % m/m)																	
Available alumina ¹	49.0	50.65	49.76	52.73	42.30	51.79	44.07	45.47	33.20	40.68	39.70	41.83	40.00	59.33	57.218	53.99	43.66
Reactive silica ²	3.8	4.15	3.42	3.73	4.277	3.478	1.162	1.879	0.754	5.89	7.77	1.063	7.84	0.516	1.735	1.075	4.53
Al ₂ O ₃	52.8	55.45	53.73	57.26	47.22	55.85	50.07	50.39	37.86	50.44	50.53	46.82	50.05	60.72	60.338	56.46	49.75
Fe ₂ O ₃	12.8	9.25	11.63	6.95	21.67	8.912	17.40	13.74	35.30	9.88	9.15	19.36	6.71	4.645	3.256	8.406	12.785
SiO ₂	–	4.912	4.187	4.651	4.901	4.547	3.100	6.358	2.291	9.53	10.69	4.412	14.70	0.634	2.131	2.911	8.447
TiO ₂	1.42	1.354	1.924	1.306	1.296	1.187	2.110	1.640	2.016	1.778	1.282	2.215	1.242	0.461	0.271	0.964	1.549
ZrO ₂	–	0.0734	0.207	0.162	0.0877	0.0884	0.0286	0.0418	0.0502	0.241	0.252	0.0201	0.1531	–	0.0174	0.0176	0.0283
P ₂ O ₅	–	0.0159	0.0423	0.0267	0.0212	0.0115	0.2283	0.2089	0.1837	0.1440	0.1107	0.2288	0.2026	0.0420	0.0398	0.1563	0.1952
V ₂ O ₅	0.058	0.0353	0.0293	0.0180	0.0658	0.0281	0.0694	0.0347	0.0513	0.0349	0.0295	0.0806	0.0158	0.0170	0.0110	0.0166	0.0227
Cr ₂ O ₃	–	0.0133	0.0155	0.0074	0.0218	0.0118	0.0501	0.0277	0.0290	–	–	0.0295	0.0030	0.0096	–	–	–
MnO ₂	–	–	0.0454	0.0374	–	–	0.0254	0.0164	0.1019	0.341	0.343	0.1197	0.0699	0.0054	0.0150	0.0222	0.0348
ZnO	0.004	–	–	–	–	–	0.0055	–	–	0.0138	0.0121	–	0.0090	–	–	–	–
K ₂ O	–	–	–	–	–	–	–	0.0132	0.0210	0.773	0.544	0.0181	0.532	–	0.0244	–	–
SO ₃	–	–	–	–	0.0695	0.0497	–	–	–	–	–	0.193	–	–	0.310	0.2282	0.229
Total organic carbon	–	–	–	–	0.046	0.066	–	–	–	–	–	0.168	–	–	0.215	–	0.276
Loss of mass 1000 °C	27.5	29.03	28.19	29.72	25.07	29.58	26.77	27.49	22.01	26.30	26.66	26.81	26.14	33.26	33.54	30.98	27.27
Loss of mass 1075 °C	–	29.12	28.28	29.79	–	–	26.78	27.64	22.23	26.44	26.82	–	26.17	33.10	–	–	–
Loss of mass 405 °C	–	–	–	–	–	–	–	–	–	–	–	23.74	–	–	29.11	27.20	23.35

*SOLD OUT

¹amount of alumina that is digested in a caustic solution (150 °C) at similar conditions of Bayer Process.

²amount of silica that reacts with sodium hydroxide (150 °C) at similar conditions of Bayer Process.