

GEMA**Listado de elementos mayores**

Ref.	SiO2	TiO2	Al2O3	Fe2O3	FeO	MgO	MnO	CaO	Na2O	K2O	P2O5	H2O	Total
+ SIO-78(3F-9286)	67.10	0.52	15.63	0.00	2.96	1.97	0.07	2.51	3.82	3.82	0.18	0.79	99.37
SIO-86(3F-9393)	66.95	0.52	15.68	0.00	3.39	1.96	0.06	2.90	3.44	3.74	0.22	0.77	99.63
SIO-87(3F-9194)	66.74	0.53	15.64	0.00	3.35	2.03	0.05	2.93	3.73	3.66	0.21	0.75	99.62
SIO-88(3F-9193)	66.83	0.52	15.65	0.00	3.23	2.03	0.05	2.93	3.76	3.72	0.21	0.71	99.64
SIO-90(3F-9197)	65.71	0.58	15.71	0.00	3.63	2.42	0.05	3.12	3.54	3.78	0.23	0.80	99.57
SIO-92(3F-9199)	66.56	0.56	15.85	0.00	3.51	2.24	0.06	3.08	3.30	3.71	0.22	0.50	99.59
SIO-94(3F-9237)	67.75	0.49	15.55	0.00	3.12	1.91	0.05	2.88	3.36	3.80	0.19	0.55	99.65
SIO-96(3F-9239)	67.52	0.51	15.63	0.00	3.19	1.96	0.05	2.92	3.29	3.86	0.20	0.50	99.63
SIO-97(3F-9240)	67.31	0.48	15.83	0.00	3.10	1.90	0.05	2.89	3.56	3.93	0.20	0.40	99.65
SIO-98(3F-9241)	68.53	0.47	15.46	0.00	2.96	1.76	0.05	2.79	3.15	3.92	0.20	0.35	99.64
SIO-99(3F-9242)	68.52	0.43	15.35	0.00	2.83	1.71	0.05	2.44	3.26	4.20	0.18	0.70	99.67
SIO-100(3F-9243)	68.91	0.41	15.39	0.00	2.64	1.55	0.04	2.40	3.64	4.04	0.20	0.50	99.72
SIO-101(3F-9244)	68.09	0.45	15.60	0.00	2.96	1.82	0.05	2.08	3.68	3.70	0.22	1.00	99.65
SIO-102(3F-9245)	66.87	0.47	15.41	0.00	2.99	2.14	0.06	2.25	3.41	4.22	0.19	1.65	99.66
SIO-103(3F-9246)	66.58	0.54	15.83	0.00	3.33	2.13	0.05	2.78	3.52	3.88	0.22	0.76	99.62
SIO-105(3F-9248)	67.45	0.48	15.77	0.00	3.02	1.91	0.04	2.19	3.37	4.19	0.24	1.00	99.66
SIO-2031(3F-9174)	67.17	0.52	15.44	0.00	3.00	2.06	0.06	2.39	4.54	3.70	0.14	0.78	99.80
SIO-2030(3F-9132)	67.94	0.49	15.54	0.00	2.73	1.76	0.05	2.40	4.65	3.39	0.14	0.75	99.84

GEMA

Listado de elementos traza

Ref.	Li	Rb	Sr	Ba	V	Cr	Co	Ni	Cu	Zn	Zr	Nb	Sc	Y	K/Rb	Ba/Sr
SIO-78 (3F-9286)		180	350	671	50	130	5	20	3	50	70	5		11	176	1.91
SIO-86 (3F-9193)		196	342	477	42	149	11	20	4	52	128	5		20	158	1.39
SIO-87 (3F-9194)		168	345	442	46	151	8	23	4	53	128	5		12	180	1.28
SIO-88 (3F-9195)		177	340	405	41	140	9	23	2	54	119	5		13	174	1.19
SIO-90 (3F-9197)		166	368	486	66	196	10	33	8	51	126	5		12	189	1.32
SIO-92 (3F-9199)		169	371	357	52	162	10	27	3	49	120	5		11	182	.96
SIO-94 (3F-9237)		178	332	367	50	163	9	25	4	41	126	5		14	177	1.10
SIO-96 (3F-9239)		177	339	430	41	139	10	20	2	55	122	5		11	181	1.26
SIO-97 (3F-9240)		180	346	455	42	142	8	23	2	55	124			12	181	1.31
SIO-98 (3F-9241)		180	326	474	41	144	8	22	2	48	116			15	180	1.45
SIO-99 (3F-9242)		172	301	455	35	136	8	18	3	52	110	5		12	202	1.51
SIO-100 (3F-9243)		172	292	446	32	140	7	15	1	44	108			11	194	1.52
SIO-101 (3F-9244)		147	289	448	37	173	8	17	1	55	115	5		11	208	1.55
SIO-102 (3F-9245)		170	326	517	38	141	9	18	13	62	115	5		11	206	1.58
SIO-103 (3F-9246)		179	350	499	46	156	9	22	3	54	128			10	179	1.42
SIO-105 (3F-9248)		207	315	472	41	129	9	19	3	30	114			8	168	1.49
SIO-2031 (3F-9174)		192	347	479	46	173	10	24	10	58	117	10		18	159	1.38
SIO-2030 (3F-9132)		185	351	499	37	177	8	19	18	50	122	10		16	152	1.42



Listado de la norma CIPW

Ref.	Q	Cor	Ort	Ab	An	Ne	Lo	Ac	Di	Hy	Ol	Il	Mag	Ap	ITT	%An
SIO-78	20.60	1.09	22.89	32.78	11.43					9.75		.10		.43	76.2	25.8
SIO-86	21.86	1.24	22.35	29.43	13.09					10.47		.99		.52	73.6	30.7
SIO-87	20.10	.72	21.87	31.91	13.31					10.54		1.01		.50	73.8	29.4
SIO-88	19.87	.61	22.21	32.15	13.30					10.33		.99		.50	74.2	29.2
SIO-90	18.59	.68	22.61	30.32	14.14					11.97		1.11		.55	71.5	31.8
SIO-92	21.47	1.34	22.12	28.17	13.96					11.31		1.07		.52	71.7	33.1
SIO-94	23.10	1.13	22.65	28.68	13.16					9.85		.93		.45	74.4	31.4
SIO-96	22.86	1.21	23.0	28.07	13.29					10.08		.97		.47	73.9	32.1
SIO-97	20.98	.95	23.39	30.34	13.12					9.80		.91		.47	74.7	30.1
SIO-98	25.17	1.45	23.32	26.83	12.62					9.21		.89		.47	75.3	31.9
SIO-99	24.37	1.45	25.07	27.86	11.04					8.93		.82		.43	77.3	28.3
SIO-100	23.63	1.15	24.05	31.03	10.68					8.17		.78		.47	78.7	25.6
SIO-101	24.12	2.31	22.16	31.55	9.0					9.44		.86		.52	77.8	22.1
SIO-102	21.63	1.62	25.43	29.43	10.12					10.37		.91		.45	76.5	25.5
SIO-103	20.55	1.32	23.18	30.12	12.49					10.75		1.03		.52	73.8	29.3
SIO-105	23.05	2.31	25.09	28.89	9.42					9.71		.92		.57	77	24.5
SIO-2031	16.82		22.07	38.78	10.92				.09	9.95		.99		.33	77.6	21.9
SIO-2030	18.75	.19	20.21	39.70	11.09					8.76		.93		.33	78.6	21.8

GEMA**Listado de elementos mayores**

Ref.	SiO ₂	TiO ₂	Al ₂ O ₃	Fe ₂ O ₃	FeO	MgO	MnO	CaO	Na ₂ O	K ₂ O	P ₂ O ₅	H ₂ O	Total
SI0-84 (JF-9191)	71.42	0.29	14.34	0.00	1.91	0.99	0.03	1.92	3.48	4.62	0.13	0.65	99.78
SI0-85 (JF-9192)	74.52	0.19	13.52	0.00	1.47	0.59	0.03	1.24	3.06	4.69	0.07	0.45	99.83

GEMA**Listado de la norma CIPW**

Ref.	Q	Cor	Ort	Ab	An	Ne	Le	Ac	Di	Hy	Ol	Il	Mag	Ap	ITT	%An
SI0-84	27.10	.43	27.53	29.70	8.75					5.59		.55		.31	84.3	22.7
SI0-85	34.53	1.33	27.88	26.05	5.72					3.93		.36		.16	88.4	18

GEMA**Listado de elementos traza**

Ref.	Li	Rb	Sr	Ba	V	Cr	Co	Ni	Cu	Zn	Zr	Nb	Sc	Y	K/Rb	Ba/Sr
SI0-84		200	230	299	22	136	5	11	9	22	90	5		12	191	1.3
SI0-85		229	124	200	11	145	3	9	4	21	75	5		12	170	1.61

PORFIDOS GRANODIORITICOS**GEMA****Listado de elementos mayores**

Ref.	SiO2	TiO2	Al2O3	Fe2O3	FeO	MgO	MnO	CaO	Na2O	K2O	P2O5	H2O	Total
SI0-83 (JF-9190)	67.03	0.48	15.38	0.00	3.05	2.00	0.04	2.31	2.50	4.14	0.22	1.48	98.63
SI0-111 (JF-9264)	66.67	0.52	15.64	0.00	2.99	2.11	0.06	2.76	3.90	3.84	0.26	0.92	99.67
SI0-112 (JF-9265)	67.09	0.50	15.50	0.00	3.02	2.17	0.06	2.73	3.30	4.01	0.26	1.00	99.64
SI0-113 (JF-9266)	67.24	0.49	15.39	0.00	2.91	1.87	0.05	2.64	3.76	3.86	0.23	1.23	99.67

GEMA**Listado de la norma CIPW**

Ref.	Q	Cor	Ort	Ab	An	Ne	Le	Ac	Di	Hy	Ol	Il	Mag	Ap	ITT	%An
SI0-83	27.90	3.20	25.17	21.77	10.31					10.15		.93		.53	74.8	32.1
SI0-111	19.03	.68	22.97	33.40	12.14					10.13		.99		.62	75.4	26.6
SI0-112	22.29	1.40	24.01	28.30	12.0					10.38		.96		.62	74.6	29.7
SI0-113	21.01	.78	23.16	32.31	11.77					9.44		.94		.55	76.4	26.7

GEMA**Listado de elementos traza**

Ref.	Li	Rb	Sr	Ba	V	Cr	Co	Ni	Cu	Zn	Zr	Nb	Sc	Y	K/Rb	Ba/Sr
SI0-83		181	371	554	39	144	7	21	4	33	133	5		10	189	1.49
SI0-111		168	417	785	35	141	9	26	12	40	175	10		10	189	1.88
SI0-112		170	430	616	43	161	8	31	6	45	143			11	195	1.43
SI0-113		168	383	436	39	131	25	9	6	39	134			13	190	1.13