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## Article

### **Ferro-ferri-katophorite, a new clinoamphibole from the silicocarbonatite dykes in Sierra de Maz, La Rioja, Argentina**

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**Table S1.** Powder X-ray diffraction data of ferro-ferri-katophorite. The five strongest reflections are bolded. The structure refined using single-crystal data (including the corresponding unit cell parameters) was used for the calculated pattern. Differences between observed and calculated intensities are due to preferential orientation on the perfect {110} cleavage.

<i>I</i> obs	<i>I</i> calc	<i>d</i> obs	<i>d</i> cal	<i>h</i>	<i>k</i>	<i>l</i>	<i>I</i> obs	<i>I</i> calc	<i>d</i> obs	<i>d</i> cal	<i>h</i>	<i>k</i>	<i>l</i>
1.96	5.63	9.047	9.015	0	2	0	2.03	5.04	1.808	1.803	0	10	0
<b>100.00</b>	<b>100.00</b>	<b>8.446</b>	<b>8.411</b>	1	1	0	1.33	5.58	1.754	1.747	-5	1	2
1.40	10.98	4.918	4.903	-1	1	1	1.61	2.15	1.7221	1.7160	-5	5	1
3.84	4.15	4.775	4.754	2	0	0	0.7	5.16	1.7005	1.6953	-1	3	3
3.28	14.22	4.523	4.508	0	4	0		0.62		1.6907	-3	1	3
1.12	3.92	4.022	4.008	1	1	1		4.67		1.6879	-2	8	2
1.33	7.21	3.899	3.886	-1	3	1	3.57	2.27	1.6920	1.6858	2	10	0
8.87	43.92	3.405	3.393	1	3	1		0.07		1.6852	-5	3	2
13.70	27.23	3.284	3.271	2	4	0		3.90		1.6844	0	2	3
<b>50.17</b>	<b>62.28</b>	<b>3.135</b>	<b>3.122</b>	3	1	0		1.95		1.6771	-3	9	1
6.64	21.90	2.961	2.949	2	2	1	9.99	25.50	1.6578	1.6511	4	6	1
<b>26.07</b>	<b>12.39</b>	<b>2.815</b>	<b>2.804</b>	3	3	0	3.49	5.97	1.6420	1.6355	4	8	0
5.80	21.60	2.742	2.731	-3	3	1	3.63	11.97	1.6210	1.6153	1	11	0
<b>18.24</b>	<b>86.55</b>	<b>2.720</b>	<b>2.711</b>	1	5	1	7.12	5.28	1.5918	1.5848	6	0	0
7.48	48.16	2.604	2.595	0	6	1		22.39		1.5868	-1	5	3
6.99	58.21	2.555	2.547	-2	0	2	0.35	1.46	1.5668	1.5612	2	10	1
3.63	3.90	2.390	2.381	3	5	0	1.82	6.29	1.5665	1.5603	4	0	2
1.33	2.67	2.388	2.377	4	0	0	2.80	11.80	1.5392	1.5331	-6	0	2
8.74	32.44	2.345	2.336	-3	5	1	4.12	22.56	1.5241	1.5194	-2	6	3
3.28	9.95	2.330	2.320	-4	2	1	2.66	6.74	1.5090	1.5027	5	5	1
0.77	7.68	2.307	2.299	-1	7	1	1.12	2.07	1.5088	1.5034	-4	8	2
2.87	17.70	2.291	2.283	-3	1	2	2.73	10.61	1.5078	1.5025	0	12	0
1.54	4.00	2.190	2.183	1	7	1	1.12	2.35	1.4803	1.4745	4	4	2
9.29	33.30	2.173	2.165	2	6	1	1.12	4.37	1.4766	1.4716	-2	10	2
0.84	5.55	2.157	2.149	-3	3	2	2.59	2.81	1.4615	1.4571	-1	7	3
2.80	17.77	2.063	2.055	2	0	2		5.50		1.4559	3	11	0
9.37	16.79	2.026	2.019	3	5	1	0.84	2.42	1.4571	1.4515	-6	4	2
	12.94		2.018	-4	0	2	<b>15.02</b>	29.55	<b>1.4422</b>	1.4363	-6	6	1
1.12	2.25	2.007	1.999	3	7	0	0.21	2.67	1.4421	1.4365	4	10	0
0.91	2.86	1.967	1.960	1	9	0	3.28	12.49	1.3740	1.3684	5	1	2
0.56	2.17	1.947	1.940	-3	5	2	1.47	5.55	1.3672	1.3625	-5	5	3
0.91	1.85	1.939	1.930	4	2	1	2.38	3.18	1.3605	1.3545	7	1	0
2.73	2.64	1.900	1.891	5	1	0	1.68	8.74	1.3468	1.3422	1	11	2
1.33	5.58	1.883	1.876	-4	6	1	1.68	2.57	1.3434	1.3379	5	3	2
0.63	2.35	1.877	1.870	2	4	2	1.05	4.32	1.3398	1.3351	-3	11	2
1.54	6.05	1.871	1.864	-1	9	1	1.19	6.94	1.3198	1.3158	-1	1	4
0.49	0.69	1.864	1.856	-5	3	1	3.91	8.91	1.3135	1.3081	-7	5	1
1.82	2.05	1.821	1.813	5	3	0							