

Supplementary dataset to: Van Alboom, A., and De Grave, E. (2015) Temperature dependences of the hyperfine parameters of Fe^{2+} in FeTiO_3 as determined by ^{57}Fe -Mössbauer spectroscopy. Published in American Mineralogist.

Table: Relevant Mössbauer parameters with highest probability in the B_{hf} - and ΔE_Q -distributions at selected temperatures for ilmenite (Γ : full width at half maximum; other symbols: see text). Errors for the present measurements: 1 K on T , 0.02 mm/s on δ ; 0.02 mm/s on ΔE_Q ; 0.05 on η ; 0.1 T on B_{hf} ; 2° on Ω ; 0.01 mm/s on Γ . For the meaning of the symbols is the referred to the corresponding paper.

T (K)	δ (mm/s)	ΔE_Q (mm/s)	V_{zz}	η	B_{hf} (T)	Ω ($^\circ$)	Γ (mm/s)
5	1.22	1.44	>0	0.29	4.5	13	0.29
30	1.21	1.41	>0	0.31	4.4	10	0.30
40	1.21	1.35	>0	0.36	4.3	13	0.29
50	1.18	1.25	>0	0.35	3.9	8	0.30
55	1.22	1.21	>0	0.28	3.4	10	0.27
80	1.19	1.00					0.26
100	1.18	0.95					0.26
120	1.18	0.90					0.26
140	1.17	0.84					0.26
160	1.15	0.83					0.26
180	1.15	0.77					0.26
200	1.14	0.76					0.26
225	1.12	0.73					0.26
250	1.10	0.68					0.26
275	1.09	0.65					0.26
295	1.07	0.65					0.26
300	1.07	0.64					0.26
350	1.03	0.58					0.26
401	1.00	0.54					0.26
451	0.97	0.49					0.26
500	0.93	0.45					0.26
551	0.89	0.43					0.26
600	0.86	0.39					0.26
650	0.82	0.36					0.26
700	0.78	0.34					0.26
750	0.74	0.31					0.26
850	0.66	0.26					0.26
900	0.62	0.24					0.26