

AM-94-571

The structure of high-pressure C2/c ferrosilite and crystal chemistry of high-pressure C2/c pyroxenes

D. A. Hugh-Jones, A. B. Woodland, R. J. Angel

For deposit: Table 2

American Mineralogist, 79, 11-12, 1032-1041.

Table 2. Unit cell parameters of low- and high-clinoferrosilite.

P (GPa)	a (Å)	b (Å)	c (Å)	β	V (Å ³)
0.00	9.7075(7)	9.0807(4)	5.2347(5)	108.462(6)	437.70(6)
0.47	9.690(2)	9.061(4)	5.222(2)	108.29(2)	435.4(3)
0.97	9.675(1)	9.042(3)	5.215(2)	108.19(1)	433.4(2)
1.00	9.672(1)	9.041(3)	5.216(1)	108.19(1)	433.3(2)
1.35	9.668(3)	9.028(1)	5.212(1)	108.10(3)	432.4(2)
1.43	9.661(2)	9.025(4)	5.208(2)	108.09(2)	431.6(2)
1.63	9.545(1)	9.005(2)	5.0134(8)	103.12(1)	419.7(1)
1.75	9.543(2)	9.002(2)	5.013(1)	103.07(2)	419.4(2)
1.86	9.5425(6)	8.997(1)	5.0085(5)	103.035(7)	418.94(8)
1.87	9.5400(8)	8.996(2)	5.0083(6)	103.01(1)	418.8(1)
2.40	9.523(1)	8.978(2)	4.9992(8)	102.84(1)	416.8(1)
2.85	9.5111(7)	8.963(2)	4.9922(6)	102.690(8)	415.17(9)
3.14	9.510(3)	8.956(2)	4.989(1)	102.64(3)	414.6(2)
3.66	9.496(4)	8.944(2)	4.981(2)	102.51(4)	413.1(2)
3.94	9.489(1)	8.9339(8)	4.9780(6)	102.45(1)	412.09(9)
4.29	9.481(1)	8.9247(8)	4.9741(5)	102.37(1)	411.12(8)

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