
No. 1C-c16 CaTiO_3 – BaTiO_3 – PbTiO_3

1b Phase diagram: Fig. 1C-c16-001, Fig. 1C-c16-002.

5a, Dielectric constant, piezoelectric constant and elastic compliance: Fig. 1C-c16-003.

7a,

8a

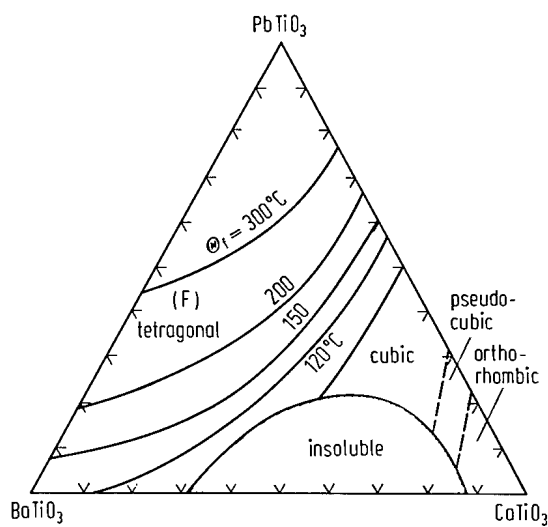


Fig. 1C-c16-001. $(\text{Pb,Ba,Ca})\text{TiO}_3$. Phase diagram [58Ike].
Figures indicate transition temperatures.

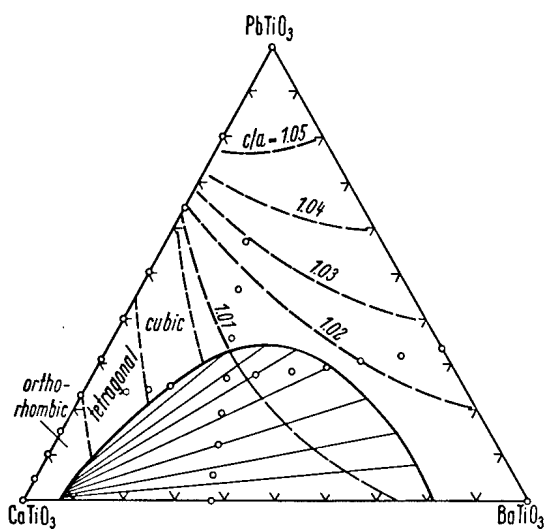


Fig. 1C-c16-002. $(\text{Pb,Ba,Ca})\text{TiO}_3$. Phase diagram [57McQ].
Figures indicate c/a ratios.

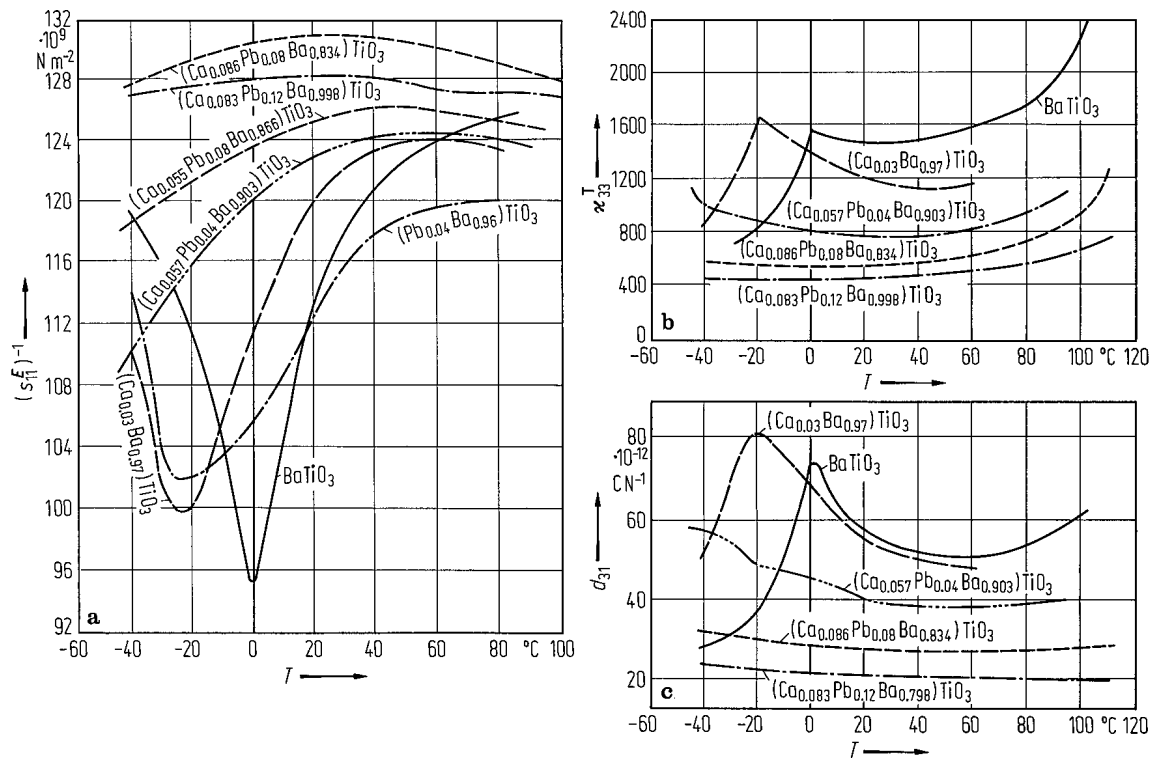


Fig. 1C-c16-003. $(\text{Ca}_x\text{Pb}_y\text{Ba}_{1-x-y})\text{TiO}_3$ (ceramics). (a) π_{11}^- vs. T . (b) κ_{33}^T vs. T . (c) d_{31} vs. T [63Mas]. Parameter: x, y .

References

- 57McQ McQuarrie, M.: J. Am. Ceram. Soc. **40** (1957) 35; errata: **40** (1957) 286.
58Ike Ikeda, T.: J. Phys. Soc. Jpn. **13** (1958) 335.
63Mas Mason, W.P.: Properties of Transducer Materials; Am. Inst. Phys. Handb., 2nd ed., Gray, D.E. (ed.), New York: McGraw Hill, Inc., 1963, pp. 3-98.