No. 1C-a86 $PbZrO_3$–$PbNb_2O_6$

1b	Phase diagram: Fig. 1C-a86-001. The composition is represented by $(1-x)PbZrO_3 \cdot x\, PbNb_2O_6$ in the figure; however, another formula $(1-x')PbZrO_3 \cdot x'\, Pb_{1/2}NbO_3$ is considered to be more relevant, where $x' = 2x/(1+x)$.
4	Thermal expansion: Fig. 1C-a86-002.
5a	Dielectric constant: Fig. 1C-a86-003.

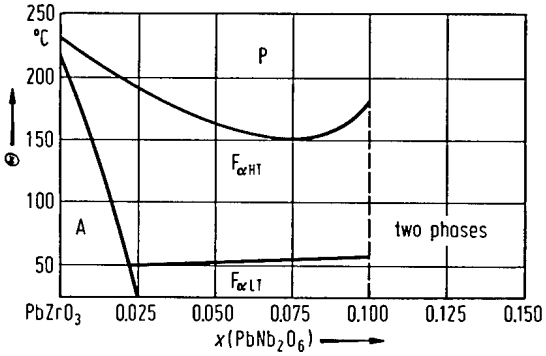

Fig. 1C-a86-001. (1–x)$PbZrO_3$·x $PbNb_2O_6$. Θ vs. x [62Dun]. Phases: $F_{\alpha LT}$, $F_{\alpha HT}$: ferroelectric rhombohedral, A: antiferroelectric, P: paraelectric cubic. See also [58Kra].

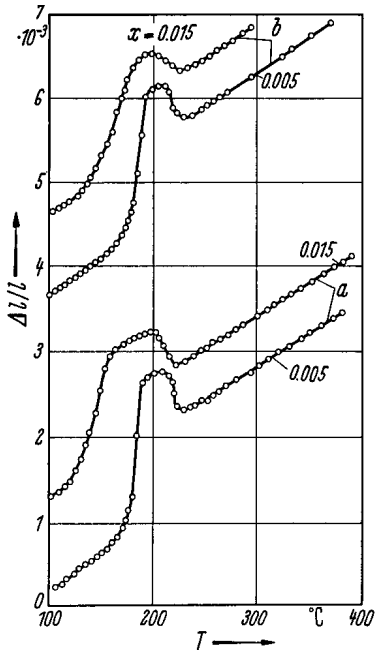

Fig. 1C-a86-002. (1–x)$PbZrO_3$·x $PbNb_2O_6$ (curves *a*) and (1–x)$PbZrO_3$·x $PbTa_2O_6$ (curves *b*). $\Delta l/l$ vs. T [58Kra]. Parameter: x.

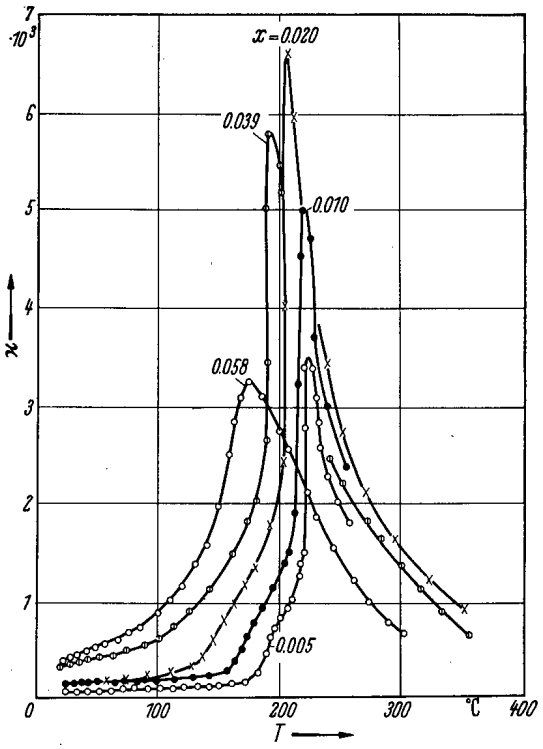

Fig. 1C-a86-003. (1−x)$PbZrO_3$·x $PbNb_2O_6$ (ceramics). κ vs. T [58Kra]. Parameter: x. f = 1 kHz.

References

58Kra Krainik, N.N.: Zh. Tekh. Fiz. **28** (1958) 525; Sov. Phys. Tech. Phys. (English Transl.) **3** (1958) 493.
62Dun Dungan, R.H., Barnett, H.M., Stark, A.H.: J. Am. Ceram. Soc. **45** (1962) 382.