
No. 1C-c51 $\text{PbTiO}_3\text{--PbZrO}_3\text{--PbNb}_2\text{O}_6$

1b Phase diagram: Fig. 1C-c51-001.
Transition temperature: Fig. 1C-c51-002.

5a Dielectric constant: Fig. 1C-c51-003, Fig. 1C-c51-004.
Pressure effect: Fig. 1C-c51-005.

7a Electromechanical properties: Fig. 1C-c51-003, Fig. 1C-c51-004.

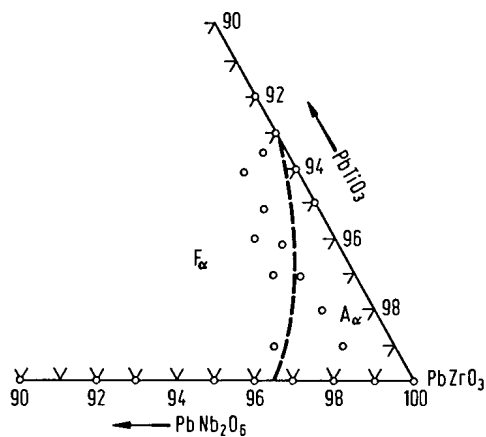


Fig. 1C-c51-001. PbTiO_3 - PbZrO_3 - PbNb_2O_6 . Phase diagram [62Dun]. Composition in mol%.

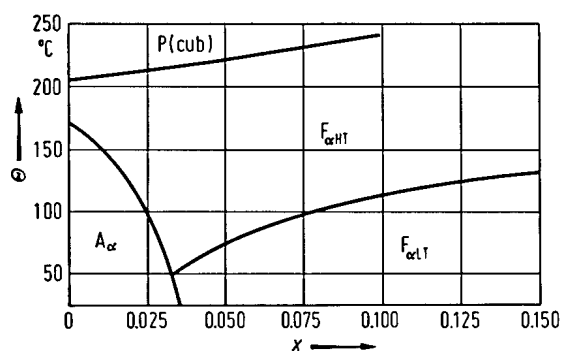


Fig. 1C-c51-002. $\text{Pb}_{0.987}(\text{Ti}_x\text{Zr}_{0.975-x}\text{Nb}_{0.025})\text{O}_3$. Θ vs. x [62Dun].

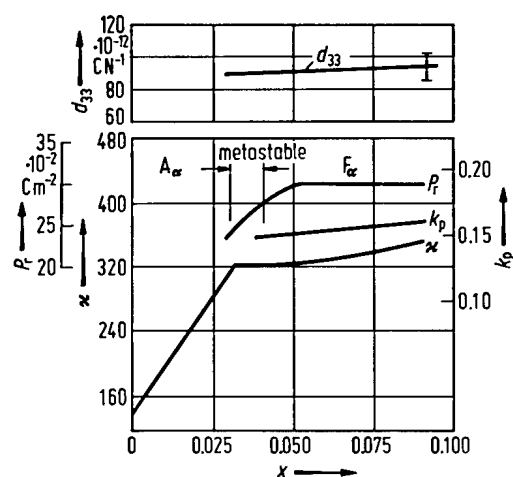


Fig. 1C-c51-003. $\text{Pb}_{0.987}(\text{Ti}_x\text{Zr}_{0.975-x}\text{Nb}_{0.025})\text{O}_3$ (ceramics). κ , P_r , k_p and d_{33} vs. x [62Dun]. P_r : remanent polarization, k_p : planar coupling coefficient. κ at $f = 1$ kHz.

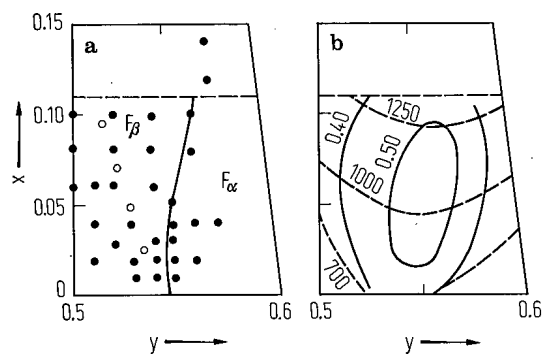


Fig. 1C-c51-004. $(1-x)\text{Pb}(\text{Ti}_{1-y}\text{Zr}_y)\text{O}_3 \cdot x \text{Pb}_{1/2}\text{NbO}_3$. **(a)** Phase diagram at RT. **(b)** κ , k_p vs. x , y [64Ike]. Full lines in (b): k_p , dashed lines in (b): κ .

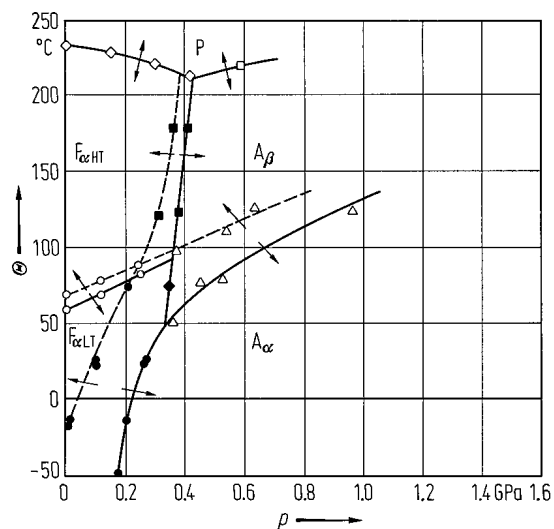


Fig. 1C-c51-005. $\text{Pb}_{0.99}[(\text{Zr}_{0.95}\text{Ti}_{0.05})_{0.98}\text{Nb}_{0.02}]\text{O}_3$. Θ vs. p [78Fri]. p : hydrostatic pressure. Arrows indicate the directions of pressure or temperature change, i.e. solid lines indicate boundaries at increasing pressure, dashed lines indicate the reverse transformation.

References

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