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**No. 1C-a2  $\text{NaNbO}_3$ – $\text{NaTaO}_3$** 

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1b Phase diagram: Fig. 1C-a2-001.

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3a Lattice parameters: Fig. 1C-a2-002.

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4 Thermal distortion: see

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63Iwa

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5a Dielectric constant: Fig. 1C-a2-003.

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9a Birefringence: Fig. 1C-a2-004.

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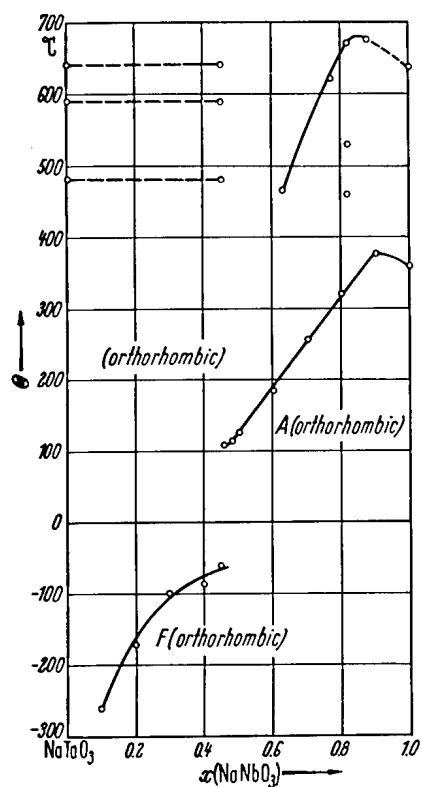
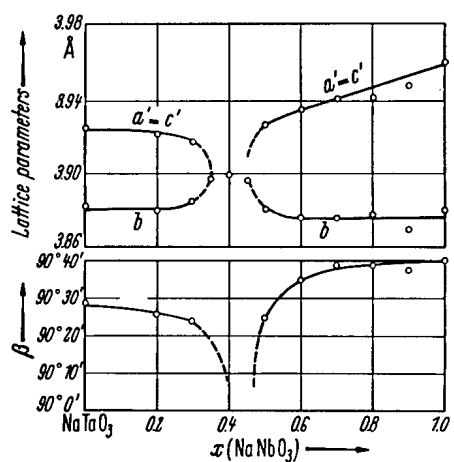
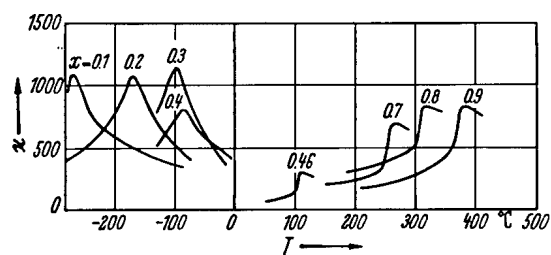


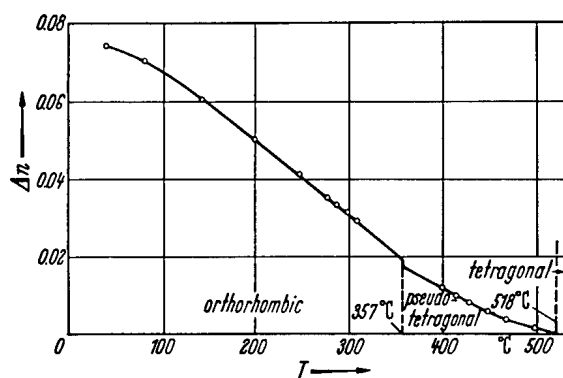
Fig. 1C-a2-001.  $\text{Na}(\text{Ta}_{1-x}\text{Nb}_x)\text{O}_3$ .  $\Theta$  vs.  $x$  [63Iwa].



**Fig. 1C-a2-002.**  $\text{Na}(\text{Ta}_{1-x}\text{Nb}_x)\text{O}_3$ . Lattice parameters vs.  $x$  [63Iwa]. Pseudomonoclinic lattice is assumed.



**Fig. 1C-a2-003.**  $\text{Na}(\text{Ta}_{1-x}\text{Nb}_x)\text{O}_3$  (ceramics).  $\kappa$  vs.  $T$  [63Iwa]. Parameter:  $x, f = 440$  kHz.



**Fig. 1C-a2-004.**  $\text{Na}(\text{Ta}_{0.1}\text{Nb}_{0.9})\text{O}_3$ .  $\Delta n$  vs.  $T$  [60Gla]. The composition is only a nominal one; true content of  $\text{NaTaO}_3$  is less than indicated.

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**References**

- 60Gla    Glaister, R.M.: J. Am. Ceram. Soc. **43** (1960) 348.  
63Iwa    Iwasaki, H., Ikeda, T.: J. Phys. Soc. Jpn. **18** (1963) 157.