

No. 1B-c17 $\text{Pb}(\text{Lu}_{1/2}\text{Nb}_{1/2})\text{O}_3$
 $(M = 389.1)$

1a	Dielectric anomaly in $\text{Pb}(\text{Lu}_{1/2}\text{Nb}_{1/2})\text{O}_3$ was found by Smolenskii and Agranovskaya in 1958.		58Smo
b	phase	II	I
	state	(A)	P
	crystal system	monoclinic	cubic
	Θ [°C]	270	
3a	$a = c = 4.152 \text{ \AA}$, $b = 4.093 \text{ \AA}$, $\beta = 90^\circ 30'$ at RT.		65Kup
4	Thermal expansion: Fig. 1B-c17-001.		
5a	Dielectric constant: Fig. 1B-c17-002.		

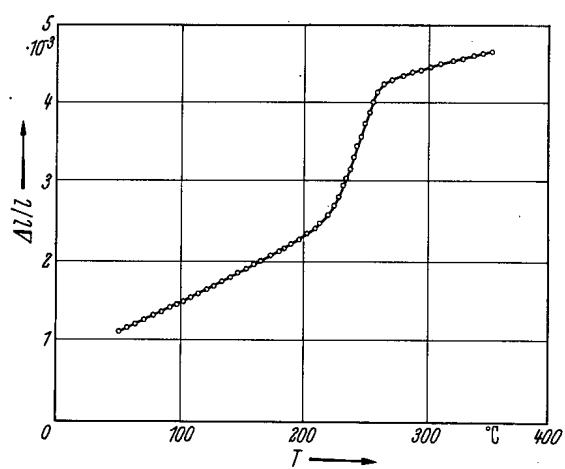


Fig. 1B-c17-001. $\text{Pb}(\text{Lu}_{1/2}\text{Nb}_{1/2})\text{O}_3$ (ceramics). $\Delta l/l$ vs. T [64Isu].

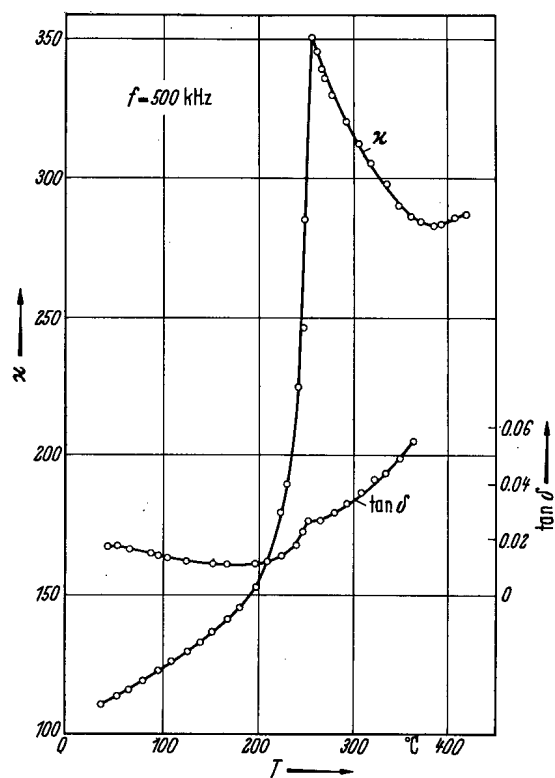


Fig. 1B-c17-002. $\text{Pb}(\text{Lu}_{1/2}\text{Nb}_{1/2})\text{O}_3$ (ceramics). κ , $\tan \delta$ vs. T [65Kup]. $f = 500 \text{ kHz}$.

References

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- 65Kup Kupriyanov, M.F., Fesenko, E.G.: Izv. Akad. Nauk SSSR, Ser. Fiz. **29** (1965) 925; Bull. Acad. Sci. USSR, Phys. Ser. (English Transl.) **29** (1965) 930.