

No. 1B-b15 $\text{Pb}(\text{Cd}_{1/2}\text{W}_{1/2})\text{O}_3$
($M = 403.3$)

1a	Synthesis of $\text{Pb}(\text{Cd}_{1/2}\text{W}_{1/2})\text{O}_3$ was reported by Belyaev et al..		63Bel
b	phase	II	I
	state	(A)	P
	crystal system	monoclinic	cubic
	$\Theta [^\circ\text{C}]$	400	
	Ronginskaya and Venevtsev reported that another transition exists at 120 °C, in addition to the transition at 400 °C.		65Rog
2a	Reaction of formation: DTA method.		76Tok
3a	$a = c = 4.156(2) \text{ \AA}$, $b = 4.074(2) \text{ \AA}$, $\beta = 91^\circ 9'(5)$ at RT.		65Fil
b	Crystal structure: Superstructure lines were observed, indicating ordered location of the octahedral voids of the perovskite lattice.		65Fil
4	Lattice distortion: Fig. 1B-b15-001. Thermal expansion: Fig. 1B-b15-002.		
5a	Dielectric constant: Fig. 1B-b15-003; see also		65Fil

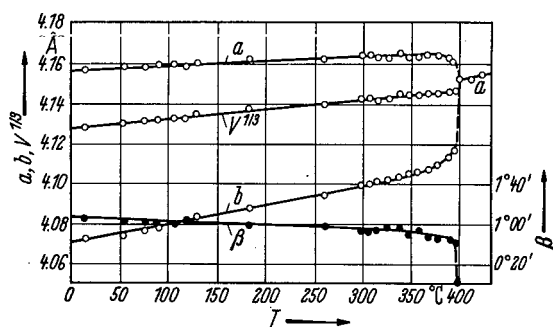


Fig. 1B-b15-001. $\text{Pb}(\text{Cd}_{1/2}\text{W}_{1/2})\text{O}_3$. Lattice parameters a , b , β , $V^{1/3}$ vs. T [65Fil].

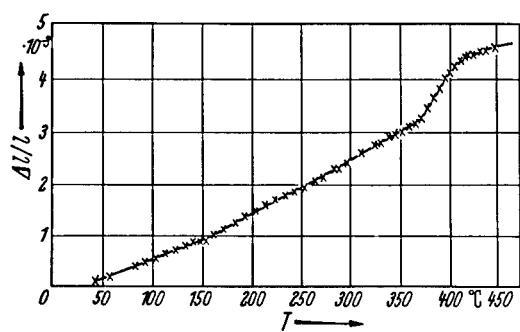


Fig. 1B-b15-002. $\text{Pb}(\text{Cd}_{1/2}\text{W}_{1/2})\text{O}_3$, $\Delta l/l$ vs. T [65Fil].

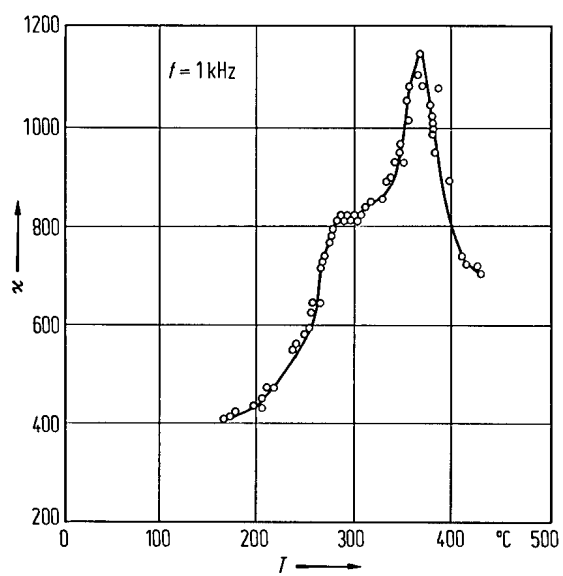


Fig. 1B-b15-003. $\text{Pb}(\text{Cd}_{1/2}\text{W}_{1/2})\text{O}_3$, κ vs. T [69Fes].

References

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