

substance: NbO₂
property: elastic moduli, Debye temperature

elastic moduli
(in 10¹² dyn cm⁻²)

c_{11}	4.33	low T	low temperature variation: Fig. 1	76B
c_{12}	0.93			
c_{13}	1.71			
c_{16}	$\pm 0.01(8)$			
c_{33}	3.88			
c_{44}	0.94			
c_{66}	0.57			

Debye temperature

Θ_D	596(7) K		from elastic moduli (about 5% lower from heat capacity data of Fig. 1)	76B
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References:

- 76B Boyle, W. F., Bennett, J. G., Shin, S. H., Sladek, R. J.: Phys. Rev. B14 (1976) 526.
78B Bennett, J. G., Sladek, R. J.: Solid State Commun. 25 (1978) 1035.

Fig. 1.

NbO₂. Elastic moduli vs. temperature below RT [78B].

