

**substance:**  $\text{Ti}_2\text{O}_3$

**property:** elastic moduli, Debye temperature

**elastic moduli**

temperature dependence: Fig. 1.  $c_{14}$  and  $c_{44}$  can be fitted quantitatively to a simple anharmonic model.  $c_{11}$ ,  $c_{12}$  and  $c_{33}$  can only be explained by invoking electronic effects.

**Debye temperature**

$\Theta_D$	672(12) K	$T = 3 \dots 15$ K	low-temperature heat capacity	73S
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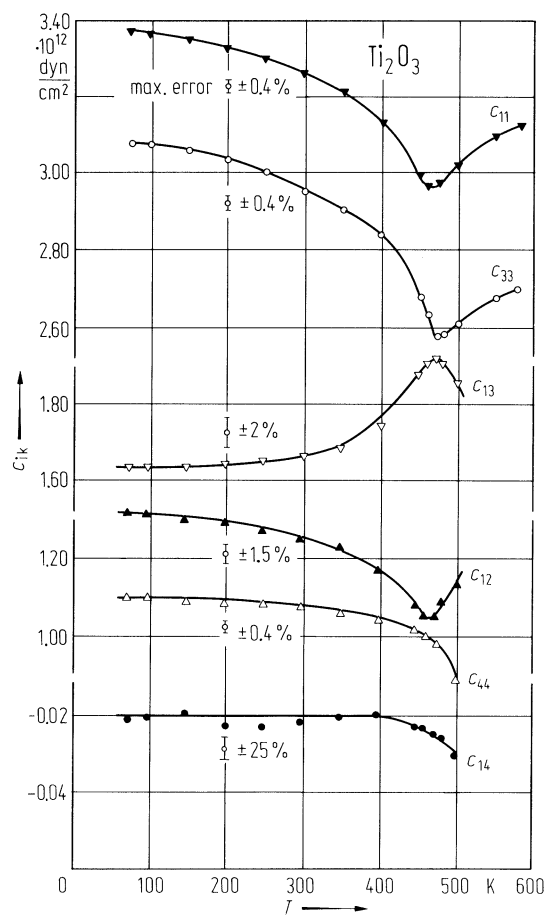
Data calculated from elastic constants are shown in Fig. 2.

**References:**

- 73C     Chi, T. C., Sladek, R. J.: Phys. Rev. B7 (1973) 5080.  
73S     Sjostrand, M. E., Keesom, P. H.: Phys. Rev. B7 (1973) 3558.

**Fig. 1.**

$\text{Ti}_2\text{O}_3$ . Elastic moduli vs. temperature [73C].



**Fig. 2.**

Ti<sub>2</sub>O<sub>3</sub>. Debye temperature vs. temperature [73C].

