

substance: Cr_{1-x}Te

property: crystal structure, physical properties

Cr_{1-x}Te (0 ≤ x ≤ 0.25)

(S: structure (space group), CG: crystal growth).

(The references in the last column refer to all data of this document)

lattice parameters, resistivity, Seebeck coefficient, energy gap

a	3.93 Å		S: B8, D _{6h} ⁴ – P6 ₃ /mmc,	60H,
c	6.15 Å		ferromagnetic, $T_C = 343$ K,	66S,
ρ	10 ⁻³ Ω cm	n-type, poly-	$p_A = 2.39 \mu_B/\text{Cr atom at 0 K.}$	76G
S	- 24 μV K ⁻¹	crystalline	T_C depends on x.	78L
$E_{g,th}$	0.02 eV	sample	$dT_C/dp = - 6$ K/kbar, $p > 28$ kbar no ferromagnetism observed CG: Bridgman method at 1280°C	

References:

- 60H Hirone, T., Chiba, S.: J. Phys. Soc. Jpn. 15 (1960) 1991.
- 66S Suchet, J., Druille, R., Leners, J.: Inorg. Mater. (USSR) (English Transl.) 2 (1966) 679.
- 76G Grazhdankina, N. P., Bersenev, Yu. S.: High Temp.- High Pressures 8 (1976) 613.
- 78L Lambert-Andron, B., Urazhdankina, N. P., Vettier, C.: J. Phys. (Paris) Lett. 39 (1978) 43.