

substance: chromium sesquioxide (Cr₂O₃)
property: thermal expansion, density, melting point

coefficients of linear thermal expansion

α_a	$7.1 \cdot 10^{-6} \text{ K}^{-1}$	$T > T_N$	76A
α_c	$5.1 \cdot 10^{-6} \text{ K}^{-1}$		
α_a	$5.86 \cdot 10^{-6} \text{ K}^{-1}$	$T = 26 \dots 1000 \text{ }^\circ\text{C}$	64K
α_c	$8.12 \cdot 10^{-6} \text{ K}^{-1}$		
α_a	$7.85 \cdot 10^{-6} \text{ K}^{-1}$	$T = 25 \dots 1070 \text{ }^\circ\text{C}$	72K
α_c	$6.38 \cdot 10^{-6} \text{ K}^{-1}$		
α_a	$9.75 \cdot 10^{-6} \text{ K}^{-1}$	$T = 1070 \dots 1470 \text{ }^\circ\text{C}$	
α_c	$9.30 \cdot 10^{-6} \text{ K}^{-1}$		
α_a	$13.30 \cdot 10^{-6} \text{ K}^{-1}$	$T = 1470 \dots 1670 \text{ }^\circ\text{C}$	
α_c	$12.40 \cdot 10^{-6} \text{ K}^{-1}$		

density

d	5.21 g cm^{-3}	83H
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melting point

T_m	$2266(25)^\circ\text{C}$	83H
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References:

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76A Alberts, H. L., Boeyens, J. C. A.: J. Mag. Magn. Mater. 2 (1976) 327.
83H Handbook of Chemistry and Physics, Weast, R. C., (ed.), 64th edition 1983, CRC Press.