

48-0474

Wavelength= 1.936042

*

Y0.9Ca0.1Cr0.8Co0.2O3

Calcium Chromium Cobalt Yttrium Oxide

Rad.: FeK α 1 λ : 1.936042 Filter: Graph Mono d-sp:

Cut off: 5.6 Int.:

l/lcor.:

Ref: Basceri, C., Tas, A., Timucin, M., Powder Diffraction, 10, 40 (1995)

Sys.: Orthorhombic

S.G.: Pnmb (62)

a: 7.4963(6) b: 5.4903(4) c: 5.2302(4) A: 1.3654 C: 0.9526

 α : β : γ : Z: 4 mp:

Ref: Ibid.

Dx: 5.721 Dm: 5.720 SS/FOM: F₃₀ = 118(.0071, 36)Prepared at 1400 C for 10 hours in air. Perovskite, Ca_{0.3}Ti type.

C.D. Cell: a=5.490, b=7.496, c=5.230, a/b=0.7324,

c/b=0.6977, S.G.=Pnma(62). Silicon used as an external stand.

PSC: ϕ P20. Mwt: 185.40. Volume[CD]: 215.26.

© 2003 JCPDS-International Centre for Diffraction Data. All rights reserved

PCPDFWIN v. 2.4

d(A)	Int	h	k	l	d(A)	Int	h	k	l
4.2886	2	1	0	1	1.5688	8	2	3	1
3.7870	5	0	1	1	1.5479	8	4	2	0
3.7486	4	2	0	0	1.5231	11	4	0	2
3.3794	21	1	1	1	1.5191	25	2	1	3
2.7449	26	0	2	0	1.5092	5	3	2	2
2.6636	100	2	1	1	1.4212	6	3	3	1
2.6140	28	0	0	2	1.3936	1	5	1	1
2.5763	11	1	2	0	1.3724	2	0	4	0
2.3614	2	0	1	2					
2.3121	1	1	2	1					
2.2547	4	3	0	1					
2.2522	7	1	1	2					
2.2153	6	2	2	0					
2.1443	8	2	0	2					
2.0855	11	3	1	1					
2.0395	3	2	2	1					
1.9979	2	2	1	2					
1.8935	27	0	2	2					
1.8743	16	4	0	0					
1.8482	6	3	2	0					
1.8357	13	1	2	2					
1.7273	2	0	3	1					
1.7164	2	3	1	2					
1.6832	16	1	3	1					
1.6222	3	1	1	3					