

CeAl11018

Aluminum Cerium Oxide

				d(A)	Int	h	k	l	d(A)	Int	h	k	l
				11.00	28	0	0	2	1.848	10	1	0	11
				5.50	8	0	0	4	1.834	1	0	0	12
				4.82	2	1	0	0	1.813	2	2	1	1
				4.702	23	1	0	1	1.766	1	2	1	3
				4.409	22	1	0	2	1.725	4	1	1	10
Rad.: CuK $\alpha$	$\lambda$ : 1.5418	Filter:	d-sp: Diff.	4.023	7	1	0	3	1.715	9	2	0	9
Cut off:	Int.: Diffract.		I/lcor.:	3.667	31	0	0	6	1.682	1	2	1	5
Ref: Tas, A., Middle East Technical Univ., Ankara, Turkey.				3.623	8	1	0	4	1.624	1	2	0	10
Private Communication, (1996)				3.248	7	1	0	5	1.588	1	3	0	2
				2.779	29	1	1	0	1.574	18	2	1	7
				2.751	25	0	0	8	1.539	38	2	0	11
Sys.: Hexagonal				2.694	8	1	1	2	1.531	5	1	1	12
S.G.: P6 <sub>3</sub> /mmc (194)				2.632	100	1	0	7	1.517	2	2	1	8
a: 5.55812(8)	b:	c: 22.0121(4)	A: C: 3.9603	2.480	58	1	1	4	1.508	1	3	0	5
$\alpha$ :	$\beta$ :	$\gamma$ :	Z: 2 mp:	2.406	4	2	0	0	1.494	2	1	0	14
Ref: Ibid.				2.391	2	2	0	1	1.470	1	3	0	6
				2.351	2	2	0	2	1.459	2	2	0	12
				2.287	20	2	0	3	1.404	4	1	0	15
Dx: 4.088 Dm: 4.040 SS/FOM: F <sub>30</sub> = 82(.0089 , 41)				2.202	27	0	0	10	1.402	3	2	1	10
				2.180	8	1	0	9	1.390	19	2	2	0
				2.112	42	2	0	5	1.385	4	2	0	13
				2.012	33	2	0	6	1.376	2	0	0	16
β-Al <sub>2</sub> O <sub>3</sub> type. Silicon used as an external stand. PSC: hp60.				1.955	2	1	1	8	1.369	1	1	1	14
Mwt: 724.91. Volume[CD]: 588.91.													

d(A)	Int	h	k	l	d(A)	Int	h	k	l	d(A)	Int	h	k	l
1.346	2	2	1	11	.9544	1	5	0	3	.7894	1	4	3	2
1.335	1	3	1	0	.9483	1	5	0	4	.7886	1	5	0	16
1.323	1	1	0	16	.9418	1	2	1	20	.7874	2	4	2	14
1.316	11	2	0	14	.9393	1	3	0	19	.7868	2	4	3	3
1.299	1	2	2	6	.930	1	4	1	11	.7862	1	0	0	28
1.296	1	3	0	10	.9263	1	3	3	0	.7836	1	6	0	6
1.253	1	2	0	15	.924	1	2	0	22					
1.240	3	2	2	8	.9206	1	5	0	7					
1.239	3	2	1	13	.9181	1	2	2	18					
1.232	3	1	1	16	.9135	1	3	3	4					
1.228	3	3	1	7	.9083	2	2	1	21					
1.196	1	4	0	2	.9018	2	3	1	18					
1.194	2	2	0	16	.8956	1	5	0	9					
1.189	2	2	1	14	.8908	1	4	2	5					
1.185	3	1	0	18	.8894	1	2	0	23					
1.175	1	4	0	4	.8828	2	4	2	6					
1.175	1	2	2	10	.866	1	1	0	25					
1.160	2	4	0	5	.8628	3	2	2	20					
1.141	2	3	1	10	.8585	2	5	1	3					
1.119	4	1	1	18	.8569	1	2	0	24					
1.110	1	3	1	11	.8527	1	4	2	9					
1.107	1	2	2	12	.8466	1	0	0	26					
1.100	4	0	0	20	.8415	1	5	1	6					
1.097	1	2	1	16	.8403	1	3	2	17					
1.090	1	2	0	18	.837	1	5	0	13					
1.083	1	3	0	15	.8347	2	4	0	19					
1.080	1	4	0	9	.8336	2	5	1	7					
1.057	1	3	2	6	.8282	3	4	2	11					
1.055	1	4	0	10	.8269	6	3	3	12					
1.050	1	4	1	0	.8247	2	5	1	8					
1.041	4	3	2	7	.822	1	3	0	23					
1.031	4	4	0	11	.8211	1	5	0	14					
1.024	2	1	0	21	.8196	1	3	2	18					
1.017	1	3	1	14	.8158	1	4	1	17					
1.014	1	2	1	18	.8122	1	4	0	20					
1.006	1	4	0	12	.812	1	2	2	22					
.9965	1	4	1	7	.8098	1	1	1	26					
.9875	1	3	1	15	.805	1	5	0	15					
.9809	1	4	0	13	.8038	1	1	0	27					
.9795	1	1	0	22	.8023	3	6	0	0					
.9778	1	2	2	16	.8016	2	6	0	1					
.9727	2	3	0	18	.8006	1	3	1	22					
.9667	1	3	2	11	.7986	2	2	0	26					
.9617	1	5	0	1	.7969	2	4	1	18					
.9581	1	3	1	16	.7939	1	6	0	4					
.9556	2	4	0	14	.7926	1	2	1	25					