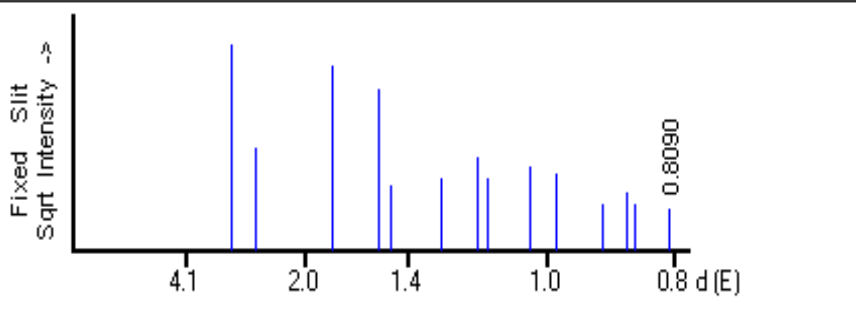


03-0640 (Deleted)  
 CAS Number:  
 Molecular Weight: 123.22  
 Volume[CD]: 132.89  
 Dx: Dm:  
 S.G.:  
 Cell Parameters:  
 a 5.103 b c  
 α β γ  
 SS/FOM: F14=5(0.083, 33)  
 I/cor:  
 Rad: MoKα1  
 Lambda: 0.70926  
 Filter: ZrO2  
 d-sp:

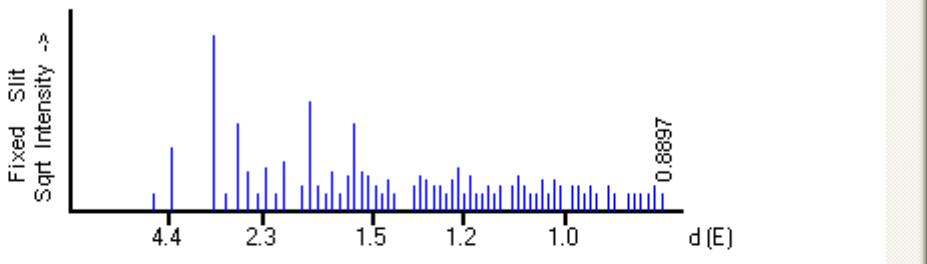
Zr O2  
 Zirconium Oxide  
 Ref: Dow Chemical Co., Midland, MI, USA, Private Communication



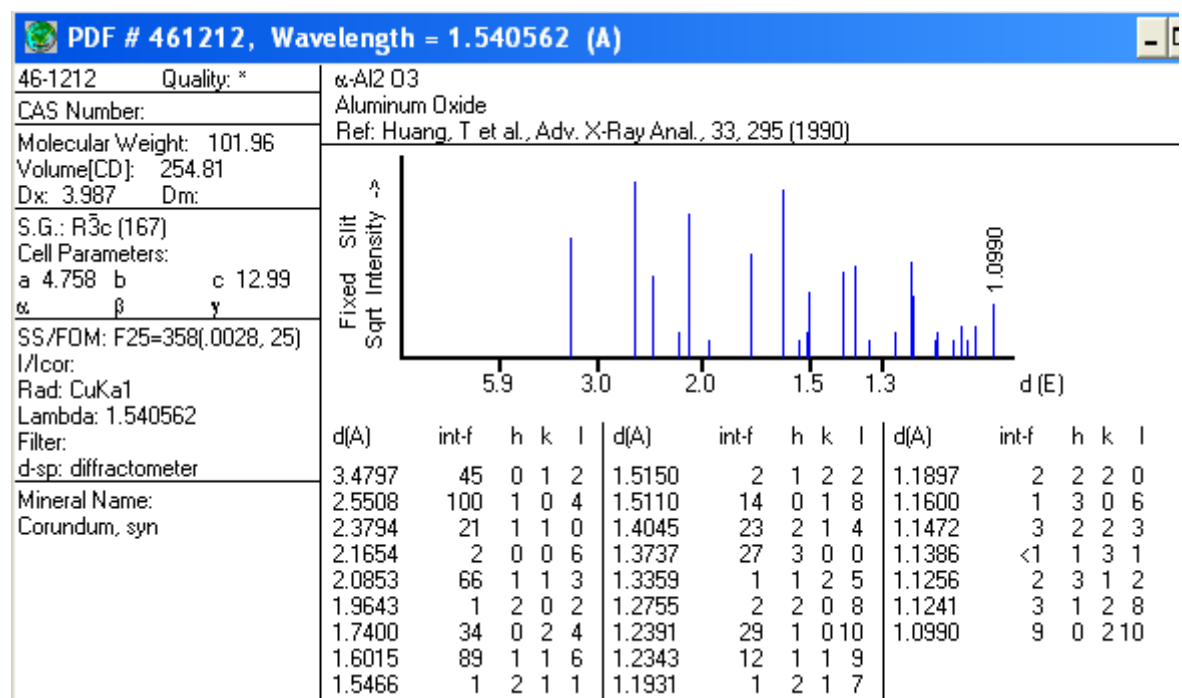
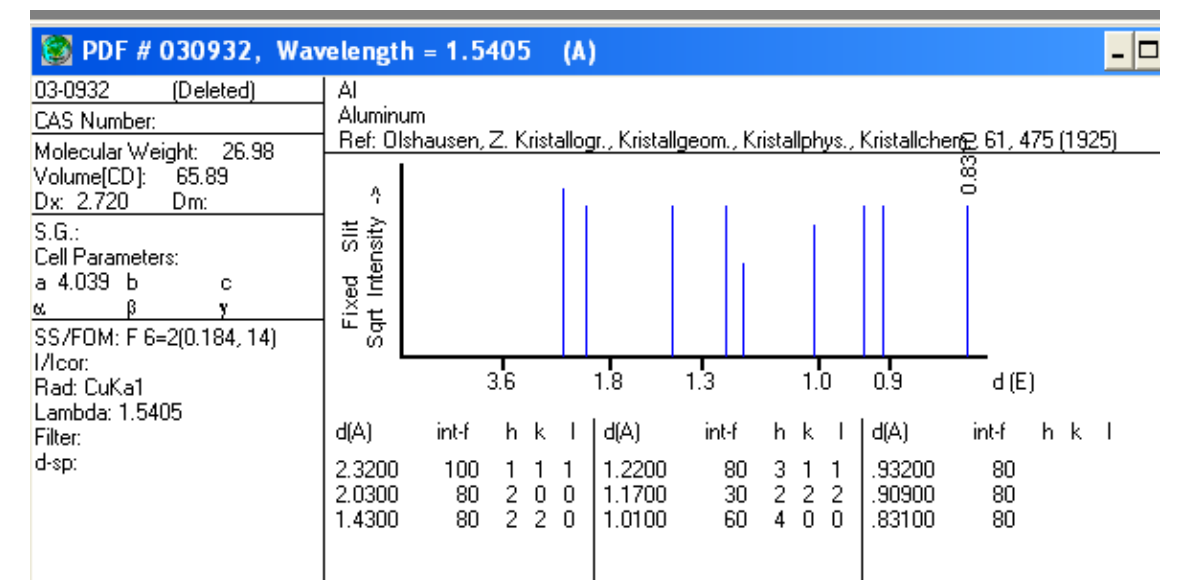
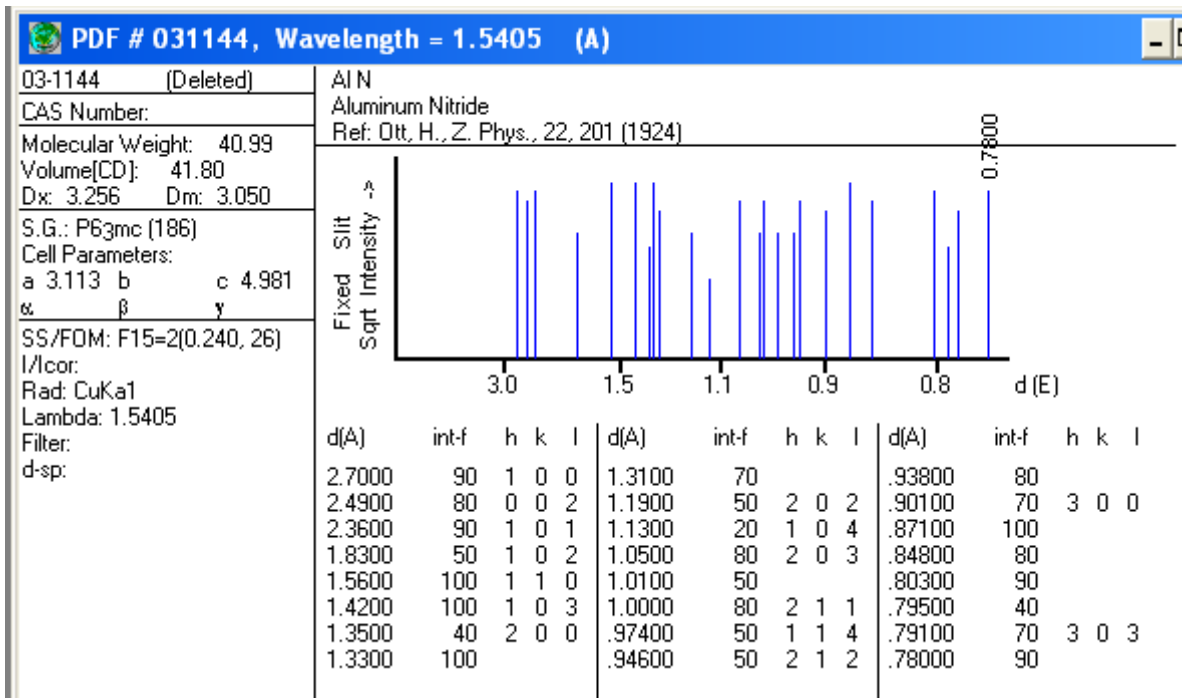
d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l
2.9600	100	1	1	1	1.2800	12	4	0	0	.90400	5	4	4	0
2.5600	24	2	0	0	1.1700	20	3	3	1	.86400	8	5	3	1
1.8100	80	2	2	0	1.1400	12	4	2	0	.85300	5	6	0	0
1.5400	60	3	1	1	1.0400	16	4	2	2	.80900	4	6	2	0
1.4800	10	2	2	2	.98400	14	5	1	1					

41-1105 Quality: \*  
 CAS Number:  
 Molecular Weight: 225.81  
 Volume[CD]: 1192.40  
 Dx: 5.031 Dm:  
 S.G.: Ia3 (206)  
 Cell Parameters:  
 a 10.60 b c  
 α β γ  
 SS/FOM: F30=160(0.060, 31)  
 I/cor: 9.1  
 Rad: CuKα1  
 Lambda: 1.540598  
 Filter: Graph  
 d-sp: diffractometer

Y2 O3  
 Yttrium Oxide  
 Ref: Martin, K., McCarthy, G., North Dakota State University, Fargo, North Dakota, USA, ICDD Grant-in-Aid, (1989)



d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l
5.3070	<1	2	0	0	1.4705	1	6	4	0	1.0604	1	10	0	0
4.3300	13	2	1	1	1.4430	3	7	2	1	1.0500	1	10	1	1
3.0610	100	2	2	2	1.4170	1	6	4	2	1.0399	3	10	2	0
2.8350	<1	3	2	1	1.3467	2	6	5	1	1.0300	1	9	4	3
2.6510	24	4	0	0	1.3255	4	8	0	0	1.0204	3	10	2	2
2.4990	5	4	1	1	1.3052	3	8	1	1	1.0111	2	10	3	1
2.3715	1	4	2	0	1.2859	2	8	2	0	.99320	2	8	7	1
2.2605	6	3	3	2	1.2674	2	6	5	3	.98450	2	10	4	0
2.1645	1	4	2	2	1.2496	1	6	6	0	.97620	1	10	3	3
2.0788	8	4	3	1	1.2327	3	8	3	1	.96800	2	10	4	2
1.9357	2	5	2	1	1.2163	6	6	6	2	.96010	1	9	5	4
1.8740	39	4	4	0	1.2007	<1	7	5	2	.94480	2	11	2	1
1.8183	2	4	3	3	1.1856	4	8	4	0	.93740	1	8	8	0
1.7677	<1	6	0	0	1.1711	1	8	3	3	.92310	1	10	4	4
1.7200	5	6	1	1	1.1570	1	8	4	2	.91600	1	11	3	2
1.6767	1	6	2	0	1.1435	2	9	2	1	.90930	1	10	6	0
1.6361	4	5	4	1	1.1305	<1	6	6	4	.90270	1	11	4	1
1.5984	25	6	2	2	1.1178	2	8	5	1	.89630	2	10	6	2
1.5633	5	6	3	1	1.0938	2	9	3	2	.88970	<1	9	6	5
1.5304	4	4	4	4	1.0823	4	8	4	4					
1.4995	2	5	4	3	1.0712	2	9	4	1					



**PDF # 060642, Wavelength = 1.5405 (A)**

06-0642 (Deleted)	Ti N
CAS Number:	Titanium Nitride
Molecular Weight: 61.91	Ref: Beattie, VerSnyder, Trans. Am. Soc. Met., 45, 397 (1953)
Volume[CD]: 76.23	
Dx: 5.394 Dm: 5.250	
S.G.: Fm3m (225)	
Cell Parameters:	
a 4.240 b c	
$\alpha$ $\beta$ $\gamma$	
SS/FOM: F10=12(0.081, 10)	
I/Cor:	
Rad: CuK $\alpha$ 1	
Lambda: 1.5405	
Filter: Ni	
d-sp:	
Mineral Name:	
Osbornite, syn	

d(A)	int-f	h	k	l	d(A)	int-f	h	k	l	d(A)	int-f	h	k	l
2.4400	75	1	1	1	1.2230	16	2	2	2	.86500	20	4	2	2
2.1200	100	2	0	0	1.0590	8	4	0	0	.81600	1	5	1	1
1.4960	55	2	2	0	.97200	12	3	3	1					
1.2770	25	3	1	1	.94800	20	4	2	0					

**PDF # 050682, Wavelength = 1.5405 (A)**

05-0682 (Deleted)	Ti
CAS Number: 7440-32-6	Titanium
Molecular Weight: 47.90	Ref: Swanson, Fuyat, Natl. Bur. Stand. (U.S.), Circ. 539, III, 4 (1954)
Volume[CD]: 35.32	
Dx: 4.504 Dm:	
S.G.: P63/mmc (194)	
Cell Parameters:	
a 2.950 b c 4.686	
$\alpha$ $\beta$ $\gamma$	
SS/FOM: F21=20(0.045, 23)	
I/Cor: 1.820	
Rad: CuK $\alpha$ 1	
Lambda: 1.5405	
Filter: Ni	
d-sp: diffractometer	
Mineral Name:	
Titanium, syn	

d(A)	int-f	h	k	l	d(A)	int-f	h	k	l	d(A)	int-f	h	k	l
2.5570	30	1	0	0	1.2470	16	1	1	2	.91750	10	1	1	4
2.3420	26	0	0	2	1.2330	13	2	0	1	.89270	4	2	1	2
2.2440	100	1	0	1	1.1708	2	0	0	4	.87960	4	1	0	5
1.7260	19	1	0	2	1.1220	2	2	0	2	.86340	2	2	0	4
1.4750	17	1	1	0	1.0653	3	1	0	4	.85140	4	3	0	0
1.3320	16	1	0	3	.98950	6	2	0	3	.82110	12	2	1	3
1.2760	2	2	0	0	.94580	11	2	1	1	.80050	9	3	0	2

**PDF # 211276, Wavelength = 1.54056 (A)**

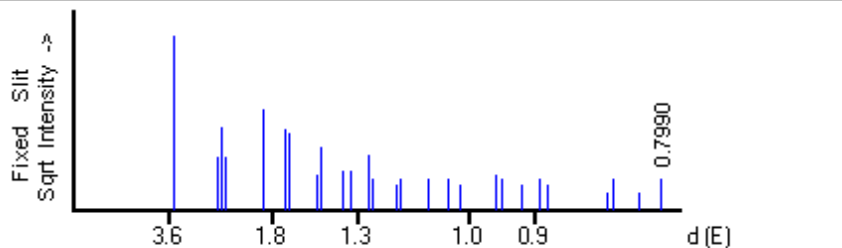
21-1276 Quality: *	Ti O2
CAS Number:	Titanium Oxide
Molecular Weight: 79.90	Ref: Natl. Bur. Stand. (U.S.) Monogr. 25, 7, 83 (1969)
Volume[CD]: 62.43	
Dx: 4.250 Dm: 4.230	
S.G.: P42/mnm (136)	
Cell Parameters:	
a 4.593 b c 2.959	
$\alpha$ $\beta$ $\gamma$	
SS/FOM: F30=107(.0088, 32)	
I/Cor: 3.40	
Rad: CuK $\alpha$ 1	
Lambda: 1.54056	
Filter:	
d-sp:	
Mineral Name:	
Rutile, syn	

d(A)	int-f	h	k	l	d(A)	int-f	h	k	l	d(A)	int-f	h	k	l	
3.2470	100	1	1	0	1.2739	1	[	3	2	0]	.96440	2	1	0	3
2.4870	50	1	0	1	1.2441	4	2	0	2	.94380	2	1	1	3	
2.2970	8	2	0	0	1.2006	2	2	1	2	.90720	4	4	0	2	
2.1880	25	1	1	1	1.1702	6	3	2	1	.90090	4	5	1	0	
2.0540	10	2	1	0	1.1483	4	4	0	0	.88920	8	2	1	3	
1.6874	60	2	1	1	1.1143	2	4	1	0	.87740	8	4	3	1	
1.6237	20	2	2	0	1.0936	8	2	2	2	.87380	8	3	3	2	
1.4797	10	0	0	2	1.0827	4	3	3	0	.84370	6	4	2	2	
1.4528	10	3	1	0	1.0425	6	4	1	1	.82920	8	3	0	3	
1.4243	2	2	2	1	1.0364	6	3	1	2	.81960	12	5	2	1	
1.3598	20	3	0	1	1.0271	4	4	2	0	.81200	2	4	4	0	
1.3465	12	1	1	2	1.0167	<1	[	3	3	1]	.78770	2	5	3	0
1.3041	2	3	1	1	.97030	2	4	2	1						

PDF # 040477, Wavelength = 1.54050 (Å)

04-0477 (Deleted)  
 CAS Number:  
 Molecular Weight: 79.90  
 Volume[CD]: 136.10  
 Dx: 3.899 Dm:  
 S.G.: 141/amd (141)  
 Cell Parameters:  
 a 3.783 b c 9.51  
 α β γ  
 SS/FOM: F25=8(0.062, 48)  
 I/lor:  
 Rad: CuKα1  
 Lambda: 1.54050  
 Filter: Ni  
 d-sp: diffractometer  
 Mineral Name:  
 Anatase, syn

TiO2  
 Titanium Oxide  
 Ref: Swanson, Tatge, Private Communication, (1950)

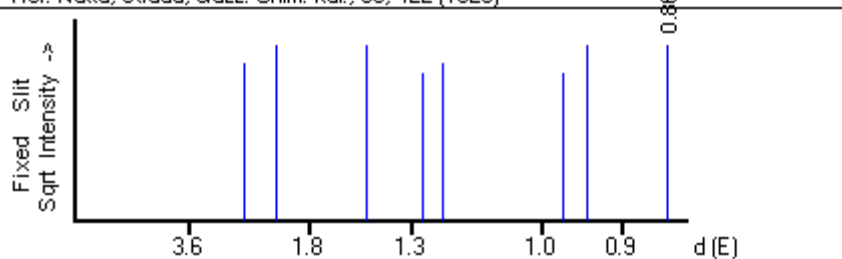


d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l
3.5100	100	1	0	1	1.3670	5	1	1	6	.95500	4	3	1	6
2.4350	9	1	0	3	1.3370	5	2	2	0	.94610	3	4	0	0
2.3790	22	0	0	4	1.2640	10	2	1	5	.91890	2	3	2	5
2.3360	9	1	1	2	1.2500	3	3	0	1	.89600	3	1	1	10
1.8910	33	2	0	0	1.1710	2	3	0	3	.88770	2	2	2	8
1.6990	21	1	0	5	1.1609	3	3	1	2	.83110	<1	3	2	7
1.6650	19	2	1	1	1.0869	3				.82680	3	4	1	5
1.4940	4	2	1	3	1.0433	3	3	2	1	.81000	1	3	0	9
1.4800	13	2	0	4	1.0173	2	1	0	9	.79900	3			

PDF # 021217, Wavelength = 1.54050 (Å)

02-1217 (Deleted)  
 CAS Number:  
 Molecular Weight: 74.93  
 Volume[CD]: 75.15  
 Dx: 6.623 Dm: 6.455  
 S.G.: Fm3m (225)  
 Cell Parameters:  
 a 4.22 b c  
 α β γ  
 SS/FOM: F 4= 1 (0.314, 9)  
 I/lor:  
 Rad:  
 Lambda:  
 Filter:  
 d-sp:

CoO  
 Cobalt Oxide  
 Ref: Natta, Strada, Gazz. Chim. Ital., 58, 422 (1928)

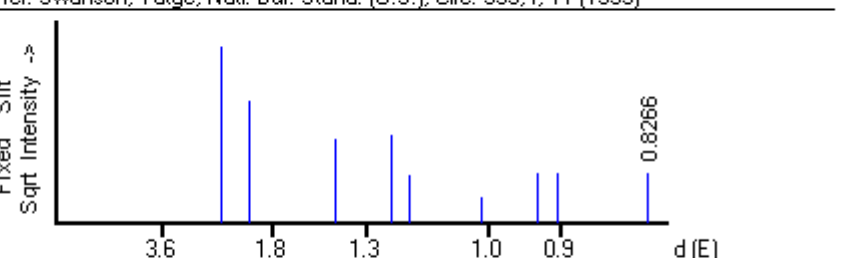


d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l
2.4700	80				1.2700	70	3	1	1	.94000	100			
2.0900	100	2	0	0	1.2100	80				.86000	100	4	2	2
1.4800	100				.97000	70	3	3	1					

PDF # 040787, Wavelength = 1.54056 (Å)

04-0787 Quality: \*  
 CAS Number: 7429-90-5  
 Molecular Weight: 26.98  
 Volume[CD]: 66.40  
 Dx: 2.699 Dm:  
 S.G.: Fm3m (225)  
 Cell Parameters:  
 a 4.049 b c  
 α β γ  
 SS/FOM: F 9=93(0.108, 9)  
 I/lor: 3.619  
 Rad: CuKα1  
 Lambda: 1.54056  
 Filter: Ni  
 d-sp:  
 Mineral Name:  
 Aluminum, syn [NR]

Al  
 Aluminum  
 Ref: Swanson, Tatge, Natl. Bur. Stand. (U.S.), Circ. 539, I, 11 (1953)

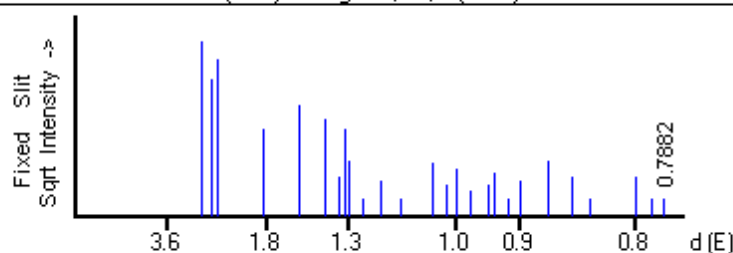


d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l
2.3380	100	1	1	1	1.2210	24	3	1	1	.92890	8	3	3	1
2.0240	47	2	0	0	1.1690	7	2	2	2	.90550	8	4	2	0
1.4310	22	2	2	0	1.0124	2	4	0	0	.82660	8	4	2	2

PDF # 251133, Wavelength = 1.540598 (Å)

25-1133 Quality: \*  
 CAS Number: 24304-00-5  
 Molecular Weight: 40.99  
 Volume[CD]: 41.74  
 Dx: 3.261 Dm:  
 S.G.: P6<sub>3</sub>mc (186)  
 Cell Parameters:  
 a 3.111 b c 4.979  
 α β γ  
 SS/FOM: F26=80(.0117, 28)  
 I/lor: 1.60  
 Rad: CuKα1  
 Lambda: 1.540598  
 Filter:  
 d-sp:

AlN  
 Aluminum Nitride  
 Ref: Natl. Bur. Stand. (U.S.) Monogr. 25, 12, 5 (1975)

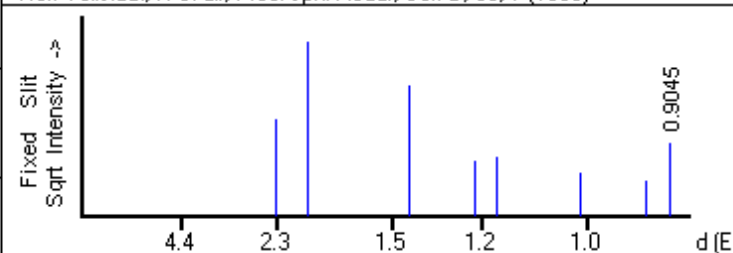


d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l
2.6950	100	1	0	0	1.2450	1	0	0	4	.91420	<1	2	0	4
2.4900	60	0	0	2	1.1850	4	2	0	2	.89820	4	3	0	0
2.3710	80	1	0	1	1.1301	1	1	0	4	.86800	10	2	1	3
1.8290	25	1	0	2	1.0461	9	2	0	3	.84480	5	3	0	2
1.5559	40	1	1	0	1.0184	3	2	1	0	.82980	1	0	0	6
1.4133	30	1	0	3	.99780	7	2	1	1	.80080	5	2	0	5
1.3475	5	2	0	0	.97200	2	1	1	4	.79310	1	1	0	6
1.3194	25	1	1	2	.94250	3	2	1	2	.78820	<1	2	1	4
1.3007	10	2	0	1	.93400	6	1	0	5					

PDF # 461200, Wavelength = 1.5418 (Å)

46-1200 Quality: \*  
 CAS Number:  
 Molecular Weight: 40.99  
 Volume[CD]: 66.18  
 Dx: 4.113 Dm:  
 S.G.: Fm3m (225)  
 Cell Parameters:  
 a 4.045 b c  
 α β γ  
 SS/FOM: F 8=155(.0064, 8)  
 I/lor:  
 Rad: CuKα  
 Lambda: 1.5418  
 Filter:  
 d-sp: diffractometer

AlN  
 Aluminum Nitride  
 Ref: Vollstadt, H et al., Proc. Jpn. Acad., Ser. B, 66, 7 (1990)

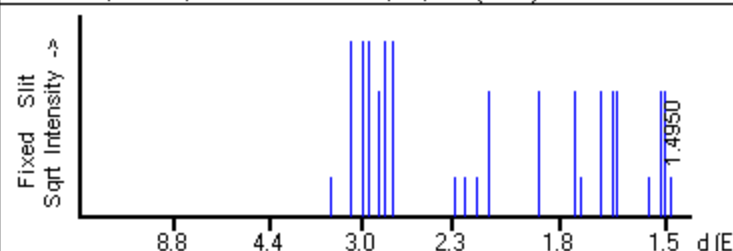


d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l
2.3346	30	1	1	1	1.2195	10	3	1	1	.92800	4	3	3	1
2.0226	100	2	0	0	1.1678	11	2	2	2	.90450	17	4	2	0
1.4300	55	2	2	0	1.0113	6	4	0	0					

PDF # 471274, Wavelength = 1.5418 (Å)

47-1274 Quality: I  
 CAS Number:  
 Molecular Weight: 225.81  
 Volume[CD]: 414.25  
 Dx: 5.431 Dm:  
 S.G.: C2/m (12)  
 Cell Parameters:  
 a 13.88 b 3.513 c 8.629  
 α β 100.09 γ  
 SS/FOM: F21=4(0.057, 88)  
 I/lor:  
 Rad: CuKα  
 Lambda: 1.5418  
 Filter:  
 d-sp: diffractometer

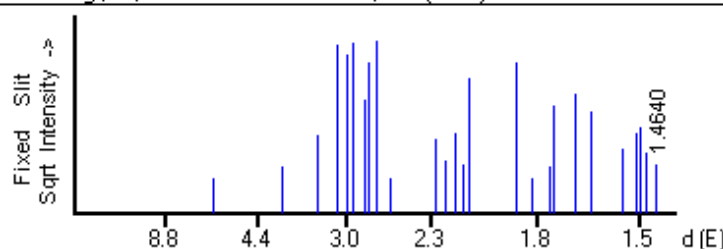
β-Y<sub>2</sub>O<sub>3</sub>  
 Yttrium Oxide  
 Ref: Atou, T et al., J. Solid State Chem., 89, 378 (1990)



d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l
3.3700	5	4	0	1	2.2790	5	6	0	0	1.6740	50	7	1	2
3.1200	100	1	1	1	2.2280	5	1	1	3	1.6380	50	4	0	5
3.0000	100	4	0	1	2.1630	5	5	1	1	1.6280	50	7	1	1
2.9360	100	4	0	2	2.1030	50	3	1	3	1.5470	5	1	1	5
2.8360	50	0	0	3	1.8870	50	3	1	3	1.5140	50	4	2	1
2.7890	100	3	1	0	1.7540	50	0	2	0	1.5060	50	4	2	2
2.7210	100	1	1	2	1.7340	5	8	0	1	1.4950	5	8	0	2

44-0399 Quality: I  
 CAS Number:  
 Molecular Weight: 225.81  
 Volume[CD]: 411.45  
 Dx: 5.468 Dm: 4.980  
 S.G.: C2/m (12)  
 Cell Parameters:  
 a 13.89 b 3.493 c 8.611  
 α β 100.27 γ  
 SS/FDM: F26=21(.0139, 91)  
 I/lor:  
 Rad: CuKα  
 Lambda: 1.5418  
 Filter: Graph  
 d-sp: diffractometer

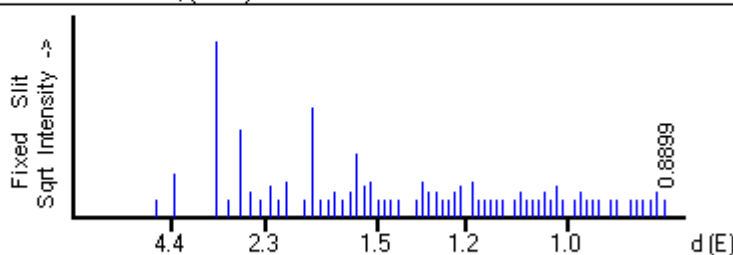
Y2 O3  
 Yttrium Oxide  
 Ref: Vogt, G., Proc.-Electrochem. Soc., 572 (1988)



d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l
5.8580	4	2	0	1	2.5890	4	1	1	2	1.7470	38	0	2	0
3.9300	7	2	0	2	2.2800	18	6	0	0	1.6740	47	7	1	2
3.3460	20	2	0	2	2.2170	9	1	1	3	1.6250	34	7	1	1
3.0970	95	1	1	1	2.1620	21	5	1	1	1.5430	14	1	1	5
2.9920	83	4	0	1	2.1200	8	0	0	4	1.5080	21	4	2	1
2.9290	96	4	0	2	2.0950	61	3	1	3	1.5000	25	4	2	2
2.8240	43	0	0	3	1.8790	75	3	1	3	1.4860	12	0	2	3
2.7740	75	3	1	0	1.8190	4	5	1	2	1.4640	8	8	0	4
2.7040	100	1	1	2	1.7600	7	1	1	4					

43-1036 Quality: C  
 CAS Number:  
 Molecular Weight: 225.81  
 Volume[CD]: 1192.36  
 Dx: 5.032 Dm:  
 S.G.: Ia3 (206)  
 Cell Parameters:  
 a 10.60 b c  
 α β γ  
 SS/FDM: F30=561(.0017, 31)  
 I/lor: 8.60  
 Rad: CuKα1  
 Lambda: 1.54056  
 Filter:  
 d-sp: calculated

Y2 O3  
 Yttrium Oxide  
 Ref: Grier, D., McCarthy, G., North Dakota State University, Fargo, North Dakota, USA, ICDD Grant-in-Aid. (1991)

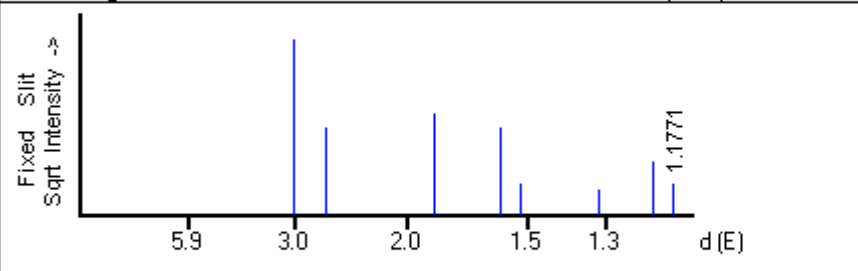


d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l
5.3020	<1	2	0	0	1.4996	1	5	4	3	1.0712	1	8	5	3
4.3290	6	2	1	1	1.4705	1	0	4	6	1.0604	1	8	6	0
3.0610	100	2	2	2	1.4430	1	7	2	1	1.0500	<1	10	1	1
2.8340	<1	1	2	3	1.4170	1	6	4	2	1.0398	2	2	6	8
2.6510	25	4	0	0	1.3467	1	6	5	1	1.0300	<1	3	4	9
2.4990	2	4	1	1	1.3255	4	8	0	0	1.0204	3	10	2	2
2.3710	1	4	2	0	1.3053	2	7	4	1	1.0111	1	7	6	5
2.2610	3	3	3	2	1.2859	2	8	2	0	.99320	1	8	5	5
2.1650	<1	4	2	2	1.2674	1	6	5	3	.98460	2	0	4	10
2.0800	4	1	3	4	1.2497	1	8	2	2	.97620	1	1	6	9
1.9360	1	5	2	1	1.2327	2	8	3	1	.96800	1	10	4	2
1.8745	39	4	4	0	1.2164	3	6	6	2	.96000	1	8	7	3
1.8186	1	4	3	3	1.1856	4	8	4	0	.94470	1	10	5	1
1.7673	<1	6	0	0	1.1710	<1	8	3	3	.93730	1	8	8	0
1.7202	2	6	1	1	1.1570	1	2	4	8	.92300	1	10	4	4
1.6766	1	0	2	6	1.1435	1	6	5	5	.91600	1	10	5	3
1.6362	2	1	4	5	1.1304	<1	6	6	4	.90930	1	8	6	6
1.5986	13	6	2	2	1.1178	1	1	5	8	.90270	1	8	7	5
1.5635	3	1	3	6	1.0937	1	7	6	3	.89620	2	10	6	2
1.5306	4	4	4	4	1.0823	2	8	4	4	.88990	<1	9	6	5

PDF # 430661, Wavelength = 1.54060 (Å)

43-0661 Quality: \*  
 CAS Number:  
 Molecular Weight: 225.81  
 Volume[CD]: 145.90  
 Dx: 5.140 Dm:  
 S.G.: Fm3 (202)  
 Cell Parameters:  
 a 5.264 b c  
 α β γ  
 SS/FOM: F 8=79(0.127, 8)  
 I/Cor:  
 Rad: CuKα1  
 Lambda: 1.54060  
 Filter: Graph  
 d-sp: diffractometer

Y2O3  
 Yttrium Oxide  
 Ref: Katagiri, S., Ishizawa, N., Marumo, F., Powder Diffraction, 8, 60 (1993)

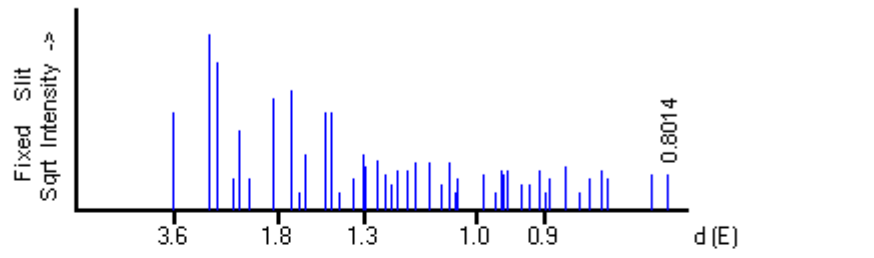


d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l
3.0346	100	1	1	1	1.5870	24	3	1	1	1.2079	9	3	3	1
2.6318	24	2	0	0	1.5200	3	2	2	2	1.1771	3	2	4	0
1.8615	33	2	2	0	1.3161	2	4	0	0					

PDF # 330664, Wavelength = 1.540598 (Å)

33-0664 Quality: \*  
 CAS Number: 1309-37-1  
 Molecular Weight: 159.69  
 Volume[CD]: 301.93  
 Dx: 5.270 Dm: 5.260  
 S.G.: R3c (167)  
 Cell Parameters:  
 a 5.035 b c 13.74  
 α β γ  
 SS/FOM: F30=69(0.111, 39)  
 I/Cor: 2.4  
 Rad: CuKα1  
 Lambda: 1.540598  
 Filter:  
 d-sp: diffractometer  
 Mineral Name:  
 Hematite, syn

Fe2O3  
 Iron Oxide  
 Ref: Natl. Bur. Stand. (U.S.) Monogr. 25, 18, 37 (1981)

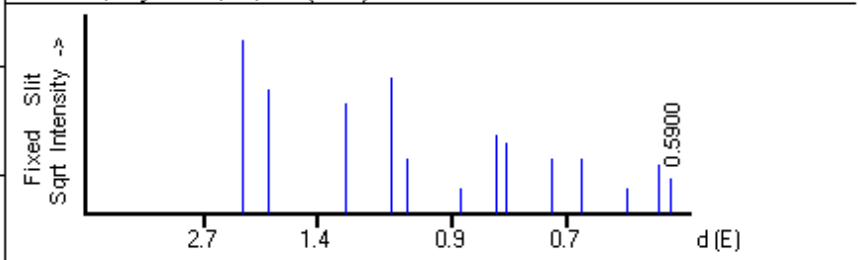


d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	
3.6840	30	0	1	2	1.3115	10	1	0	10	.96060	5	3	2	4	
2.7000	100	1	0	4	1.3064	6	1	1	9	.95810	4	0	1	14	
2.5190	70	1	1	0	1.2592	8	2	2	0	.95160	5	4	1	0	
2.2920	3	0	0	6	1.2276	4	3	0	6	.93180	2	4	1	3	
2.2070	20	1	1	3	1.2141	2	2	2	3	.92060	2	0	4	8	
2.0779	3	2	0	2	1.1896	5	1	2	8	.90810	5	1	3	10	
1.8406	40	0	2	4	1.1632	5	0	2	10	.89980	1	3	0	12	
1.6941	45	1	1	6	1.1411	7	1	3	4	.89540	3	2	0	14	
1.6367	1	2	1	1	1.1035	7	2	2	6	.87890	6	4	1	6	
1.6033	5	1	2	2	1.0768	2	0	4	2	.86480	1	2	3	8	
1.5992	10	0	1	8	1.0557	7	2	1	10	.85430	3	4	0	10	
1.4859	30	2	1	4	1.0428	<1	1	1	12	.84360	5	1	2	14	
1.4538	30	3	0	0	1.0393	3	4	0	4	.83920	3	3	3	0	
1.4138	<1	[	1	2	5]	.98920	4	3	1	8	.80890	4	3	2	10
1.3497	3	2	0	8	.97150	<1	2	2	9	.80140	4	2	4	4	

PDF # 011258, Wavelength = 0.709 (Å)

01-1258 (Deleted)  
 CAS Number:  
 Molecular Weight: 58.70  
 Volume[CD]: 44.36  
 Dx: 4.394 Dm: 8.720  
 S.G.: Fm3m (225)  
 Cell Parameters:  
 a 3.540 b c  
 α β γ  
 SS/FOM: F12=8(0.116, 13)  
 I/Cor:  
 Rad: MoKα  
 Lambda: 0.709  
 Filter:  
 d-sp:

Ni  
 Nickel  
 Ref: Hull, Phys. Rev., 17, 571 (1921)

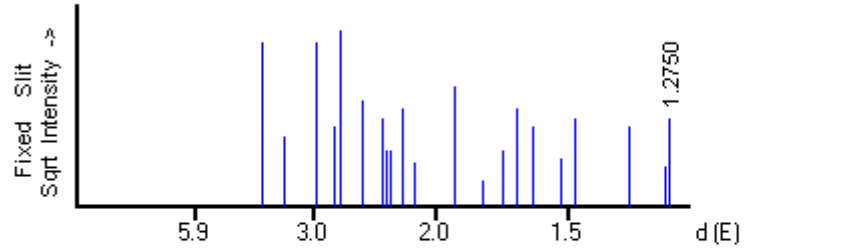


d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l
2.0400	100	1	1	1	.88000	2	4	0	0	.63000	2			
1.7700	50	2	0	0	.81000	20	3	3	1	.60000	8	5	3	1
1.2500	40	2	2	0	.79000	16	4	2	0	.59000	4	6	0	0
1.0700	60	3	1	1	.72000	10	4	2	2					
1.0200	10	2	2	2	.68000	10	5	1	1					

PDF # 310806, Wavelength = 1.54056 (Å)

31-0806 Quality: \*  
 CAS Number:  
 Molecular Weight: 151.26  
 Volume[CD]: 227.37  
 Dx: 4.419 Dm:  
 S.G.: Pnma (62)  
 Cell Parameters:  
 a 5.924 b 7.666 c 5.005  
 $\alpha$   $\beta$   $\gamma$   
 SS/FOM: F22=28(0.119, 65)  
 I/cor:  
 Rad: CuK $\alpha$ 1  
 Lambda: 1.54056  
 Filter: Ni  
 d-sp:

Mg Se O3  
 Magnesium Selenate  
 Ref: Kohn, K., Waseda University, Tokyo, Japan, Private Communication

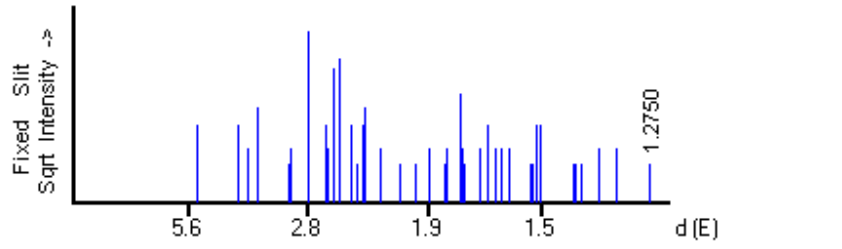


d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l
3.8300	85	0	2	0	2.2770	10	0	3	1	1.6090	20	2	4	0
3.4200	15	1	1	1	2.2080	30	1	1	2	1.5220	7	0	4	2
2.9630	85	2	0	0	2.1240	6	1	3	1	1.4810	25	4	0	0
2.7640	20	2	1	0	1.9160	35	0	4	0	1.3540	20	2	4	2
2.7080	100	1	2	1	1.9120	45	2	0	2	1.2810	5	4	3	0
2.5030	35	0	0	2	1.7860	2	3	1	1	1.2750	25	4	0	2
2.3440	25	2	2	0	1.7120	10	1	3	2					
2.3050	10	1	0	2	1.6570	30	3	2	1					

PDF # 310633, Wavelength = 1.9373 (Å)

31-0633 Quality: I  
 CAS Number:  
 Molecular Weight: 203.78  
 Volume[CD]: 302.40  
 Dx: 3.908 Dm: 3.880  
 S.G.: Pbnm (62)  
 Cell Parameters:  
 a 4.799 b 10.39 c 6.063  
 $\alpha$   $\beta$   $\gamma$   
 SS/FOM: F30=24(0.028, 45)  
 I/cor:  
 Rad: FeK $\alpha$   
 Lambda: 1.9373  
 Filter: Mn  
 d-sp:  
 Mineral Name:  
 Fayalite, magnesian

( Fe , Mg )2 Si O4  
 Iron Magnesium Silicate  
 Ref: Gillery, College of Min. Ind., Penn State Univ., University Park, PA, USA, Private Communication

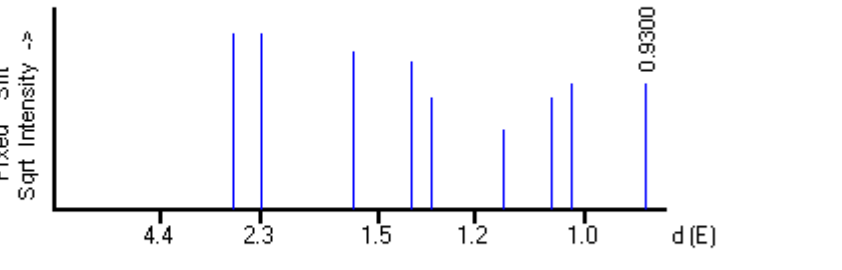


d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l
5.2100	20	0	2	0	2.2970	20	1	2	2	1.6150	10	1	5	2
3.9450	20	0	2	1	2.2860	30	1	4	0	1.5950	10	0	4	3
3.7620	10	1	0	1	2.1840	10	2	1	1	1.5310	5	3	1	1
3.5350	30	1	1	1	2.0620	5	1	3	2	1.5250	5	2	4	2
3.0450	5	1	2	1	1.9740	5	0	4	2	1.5150	20	0	0	4
3.0270	10	0	0	2	1.9080	10	1	5	0	1.5040	20	0	6	2
2.8100	100	1	3	0	1.8340	5	1	1	3	1.4190	5	1	7	0
2.6160	20	0	2	2	1.8200	10	1	5	1	1.4140	5	3	3	1
2.5990	10	0	4	0	1.7690	40	2	2	2	1.4030	5	3	1	2
2.5490	60	1	3	1	1.7610	10	2	4	0	1.3670	10	2	6	1
2.4890	70	1	1	2	1.7530	5	1	2	3	1.3330	10	1	3	4
2.4000	5	2	0	0	1.6930	10	2	4	1	1.2750	5	2	6	2
2.3890	20	0	4	1	1.6650	20	0	6	1					
2.3400	5	2	1	0	1.6400	10	1	3	3					

PDF # 020956, Wavelength = 1.542 (Å)

02-0956 Quality:  
 CAS Number:  
 Molecular Weight: 105.23  
 Volume[CD]: 94.82  
 Dx: 7.371 Dm:  
 S.G.: Fm3m (225)  
 Cell Parameters:  
 a 4.56 b c  
 $\alpha$   $\beta$   $\gamma$   
 SS/FOM: F 9=5(0.194, 9)  
 I/cor:  
 Rad: CuK $\alpha$   
 Lambda: 1.542  
 Filter:  
 d-sp:

Zr N  
 Zirconium Nitride  
 Ref: General Electric Company, Wembley, England, UK, Private Communication

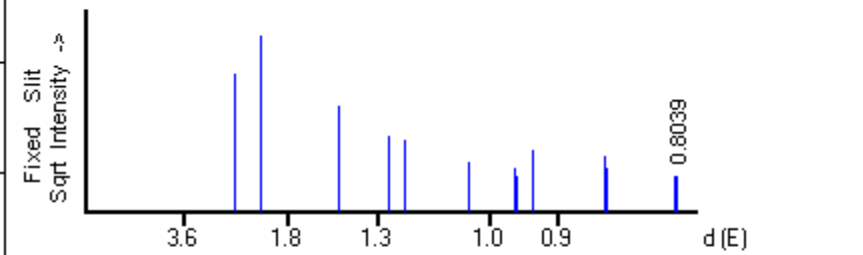


d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l
2.6400	100	1	1	1	1.3800	70	3	1	1	1.0500	40	3	3	1
2.2900	100	2	0	0	1.3200	40	2	2	2	1.0200	50	4	2	0
1.6200	80	2	2	0	1.1400	20	4	0	0	.93000	50	4	2	2



22-1189 (Deleted)  
 CAS Number: 1313-99-1  
 Molecular Weight: 74.70  
 Volume[CD]: 54.68  
 Dx: 6.805 Dm:  
 S.G.: R $\bar{3}m$  (166)  
 Cell Parameters:  
 a 2.954 b c 7.236  
 $\alpha$   $\beta$   $\gamma$   
 SS/FOM: F17=13(0.056, 23)  
 I/cor:  
 Rad: CuK $\alpha$ 1  
 Lambda: 1.54056  
 Filter: Ni  
 d-sp:

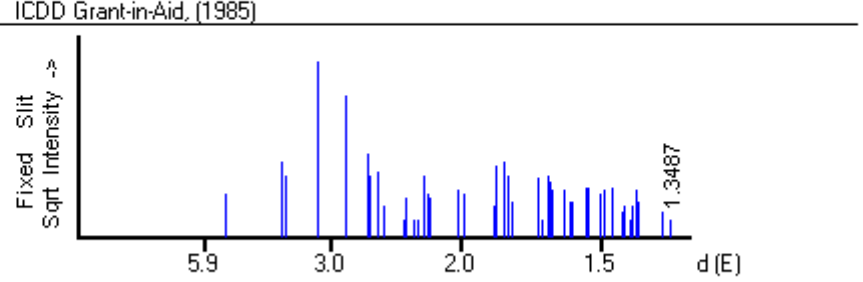
NiO  
 Nickel Oxide  
 Ref: Toussaint, C., Euratom, Ispra, Italia, Private Communication, (1969)



d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l
2.4120	60	0	0	3	1.2064	16	0	0	6	.93370	10	1	2	2
2.0880	100	0	1	2	1.0445	8	0	2	4	.85290	10	0	1	8
1.4770	35	1	0	4	.95880	6	1	0	7	.85190	6	3	0	0
1.4760	35	1	1	0	.95810	4	2	0	5	.80410	4	0	0	9
1.2600	18	0	1	5	.95760	4	2	1	1	.80390	4	3	0	3
1.2586	12	0	2	1	.93450	12	1	1	6					

36-0420 (Deleted)  
 CAS Number:  
 Molecular Weight: 123.22  
 Volume[CD]: 140.66  
 Dx: 5.818 Dm: 5.710  
 S.G.: P2 $_1$ /c (14)  
 Cell Parameters:  
 a 5.146 b 5.213 c 5.311  
 $\alpha$   $\beta$  99.2  $\gamma$   
 SS/FOM: F30=63(.0140, 34)  
 I/cor: 2.6  
 Rad: CuK $\alpha$   
 Lambda: 1.54178  
 Filter: Graph  
 d-sp: diffractometer  
 Mineral Name:  
 Baddeleyite, syn

ZrO $_2$   
 Zirconium Oxide  
 Ref: Larson, F., McCarthy, G., North Dakota State University, Fargo, North Dakota, USA, ICDD Grant-in-Aid, (1985)

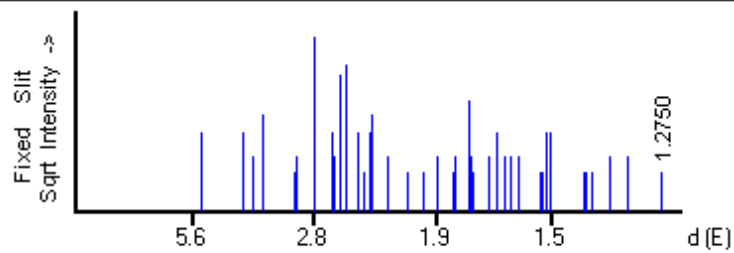


d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l
5.0790	6	1	0	0	1.9910	6	2	0	2	1.5455	8	1	3	1
3.6940	18	0	1	1	1.8593	3	2	1	2	1.5392	8	3	0	2
3.6360	12	1	1	0	1.8480	16	0	2	2	1.5088	6	1	1	3
3.1630	100	1	1	1	1.8186	18	2	2	0	1.4956	7	2	1	3
2.8390	64	1	1	1	1.8032	12	1	2	2	1.4769	8	3	1	1
2.6200	22	0	0	2	1.7825	4	2	2	1	1.4769	8	3	1	2
2.6050	12	0	2	0	1.6934	11	2	0	2	1.4514	2	0	2	3
2.5400	14	2	0	0	1.6934	11	3	0	0	1.4474	3	0	3	2
2.4970	3	1	0	2	1.6768	<1	1	2	2	1.4474	3	1	2	3
2.3420	1	0	1	2	1.6603	8	2	2	1	1.4336	<1	2	3	0
2.3320	5	0	2	1	1.6567	12	0	1	3	1.4260	3	1	3	2
2.2830	1	2	1	0	1.6508	10	1	1	3	1.4197	7	2	2	2
2.2530	1	1	1	2	1.6483	5	0	3	1	1.4197	7	3	2	0
2.2131	12	2	1	1	1.6434	7	1	3	0	1.4158	4	2	3	1
2.1905	6	1	0	2	1.6104	7	2	1	2	1.3610	2	1	3	2
2.1800	5	1	2	1	1.6104	7	3	1	0	1.3487	<1	1	2	3
2.0191	7	1	1	2	1.5916	4	1	3	1					
1.9910	6	2	1	1	1.5819	4	2	2	2					

PDF # 310633, Wavelength = 1.9373 (A)

31-0633 Quality: I  
 CAS Number:  
 Molecular Weight: 203.78  
 Volume[CD]: 302.40  
 Dx: 3.908 Dm: 3.880  
 S.G.: Pbnm (62)  
 Cell Parameters:  
 a 4.799 b 10.39 c 6.063  
 α β γ  
 SS/FDM: F30=24(0.028, 45)  
 I/Cor:  
 Rad: FeKa  
 Lambda: 1.9373  
 Filter: Mn  
 d-sp:

(Fe, Mg)<sub>2</sub>SiO<sub>4</sub>  
 Iron Magnesium Silicate  
 Ref: Gillery, College of Min. Ind., Penn State Univ., University Park, PA, USA, Private Communication

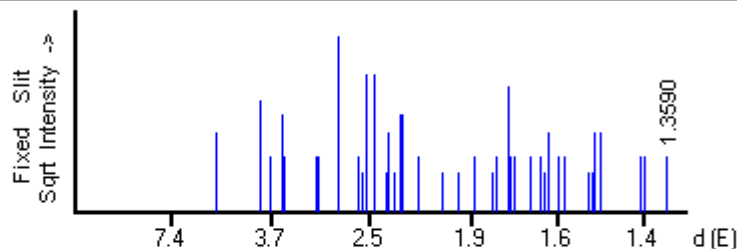


d(A)	int-f	h	k	l	d(A)	int-f	h	k	l	d(A)	int-f	h	k	l
5.2100	20	0	2	0	2.2970	20	1	2	2	1.6150	10	1	5	2
3.9450	20	0	2	1	2.2860	30	1	4	0	1.5950	10	0	4	3
3.7620	10	1	0	1	2.1840	10	2	1	1	1.5310	5	3	1	1
3.5350	30	1	1	1	2.0620	5	1	3	2	1.5250	5	2	4	2
3.0450	5	1	2	1	1.9740	5	0	4	2	1.5150	20	0	0	4
3.0270	10	0	0	2	1.9080	10	1	5	0	1.5040	20	0	6	2
2.8100	100	1	3	0	1.8340	5	1	1	3	1.4190	5	1	7	0
2.6160	20	0	2	2	1.8200	10	1	5	1	1.4140	5	3	3	1
2.5990	10	0	4	0	1.7690	40	2	2	2	1.4030	5	3	1	2
2.5490	60	1	3	1	1.7610	10	2	4	0	1.3670	10	2	6	1
2.4890	70	1	1	2	1.7530	5	1	2	3	1.3330	10	1	3	4
2.4000	5	2	0	0	1.6930	10	2	4	1	1.2750	5	2	6	2
2.3890	20	0	4	1	1.6650	20	0	6	1					
2.3400	5	2	1	0	1.6400	10	1	3	3					

PDF # 310795, Wavelength = 1.9373 (A)

31-0795 Quality: I  
 CAS Number:  
 Molecular Weight: 140.69  
 Volume[CD]: 297.50  
 Dx: 3.648 Dm: 3.690  
 S.G.: Pbnm (62)  
 Cell Parameters:  
 a 4.784 b 10.31 c 6.027  
 α β γ  
 SS/FDM: F30=25(0.029, 42)  
 I/Cor:  
 Rad: FeKa  
 Lambda: 1.9373  
 Filter: Mn  
 d-sp:

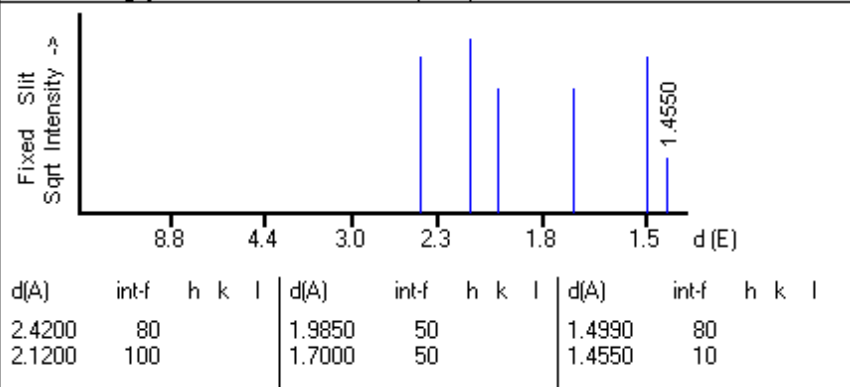
(Mg, Fe)<sub>2</sub>SiO<sub>4</sub>  
 Magnesium Iron Silicate  
 Ref: Gillery, College of Min. Ind., Penn State Univ., University Park, PA, USA, Private Communication



d(A)	int-f	h	k	l	d(A)	int-f	h	k	l	d(A)	int-f	h	k	l
5.1500	20	0	2	0	2.3300	5	2	1	0	1.6440	5	2	3	2
3.9160	40	0	2	1	2.2850	30	1	2	2	1.6310	20	1	3	3
3.7440	10	1	0	1	2.2700	30	1	4	0	1.6040	10	1	5	2
3.5160	30	1	1	1	2.1730	10	2	1	1	1.5860	10	0	4	3
3.4810	10	1	2	0	2.0480	5	1	3	2	1.5230	5	3	2	0
3.0300	10	1	2	1	1.9620	5	2	3	0	1.5130	5	2	5	1
3.0140	10	0	0	2	1.8940	10	1	5	0	1.5080	20	0	0	4
2.7910	100	1	3	0	1.8230	5	1	1	3	1.4940	20	0	6	2
2.6010	10	0	2	2	1.8070	10	1	5	1	1.4080	10 <sub>u</sub>	1	7	0
2.5780	5	0	4	0	1.7610	50	2	2	2	1.4060	<sub>u</sub>	2	3	3
2.5330	60	1	3	1	1.7540	10	2	4	0	1.3970	10	3	1	2
2.4750	60	1	1	2	1.7430	10	1	2	3	1.3590	10	3	2	2
2.3910	5	2	0	0	1.6840	10	2	4	1					
2.3700	20	0	4	1	1.6540	10	0	6	1					

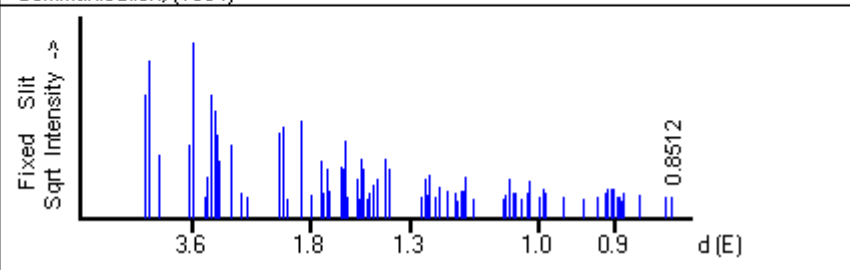
19-0771 Quality: D  
 CAS Number:  
 Molecular Weight: 56.30  
 Volume[CD]:  
 Dx: Dm:  
 S.G.:  
 Cell Parameters:  
 a b c  
 α β γ  
 SS/FOM: F = ( , )  
 I/cor:  
 Rad: CuKα1  
 Lambda: 1.5405  
 Filter:  
 d-sp:

Mg O2  
 Magnesium Oxide  
 Ref: Allamagny, Rev. Chim. Miner., 2, 645 (1965)

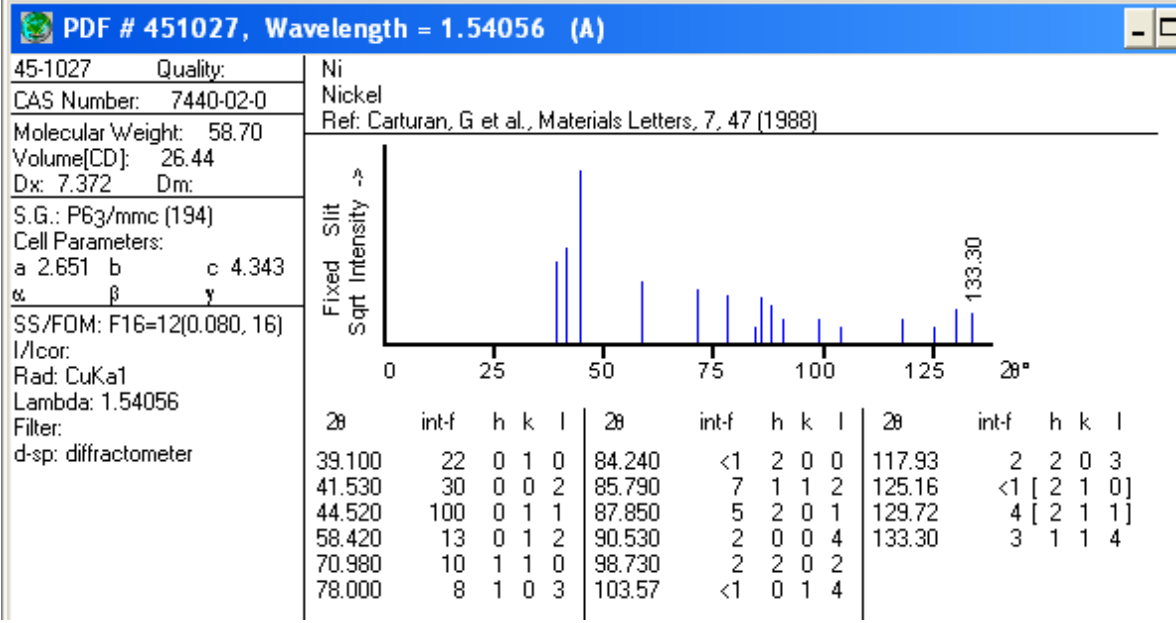
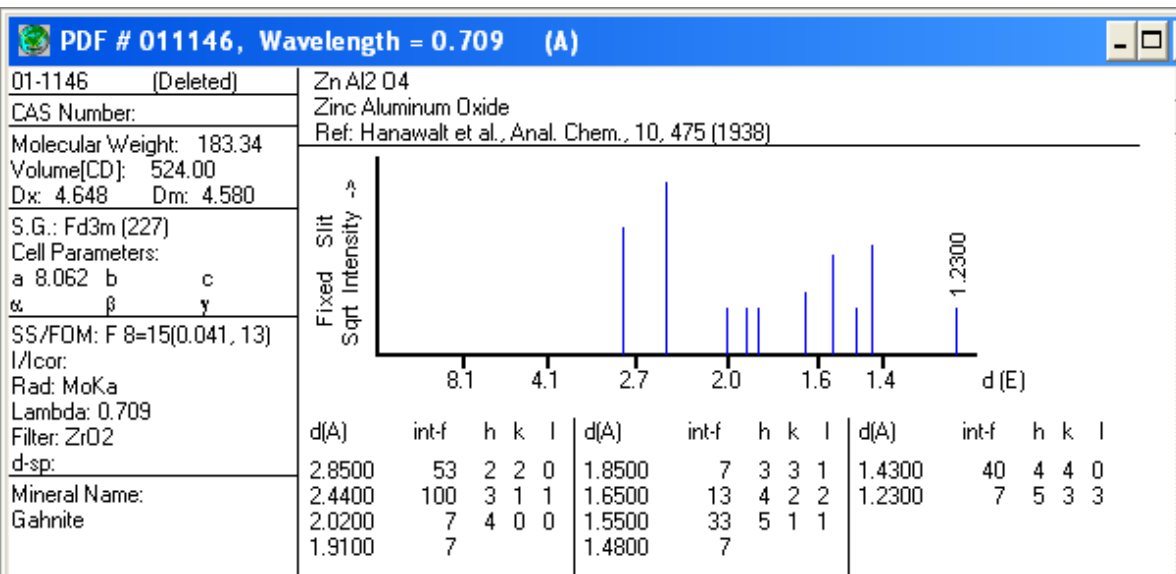
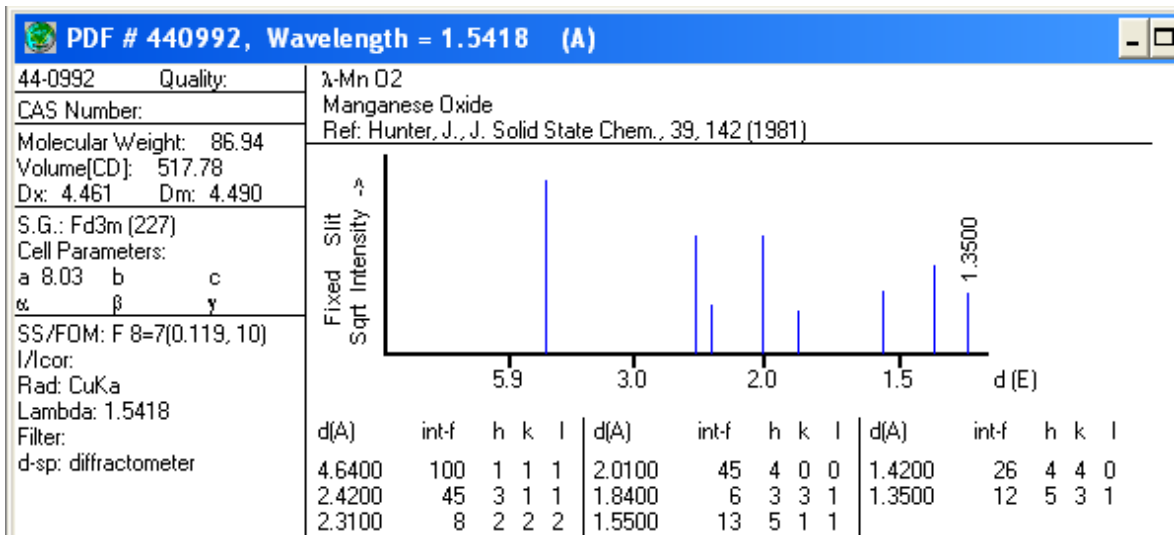


46-1237 Quality: R  
 CAS Number:  
 Molecular Weight: 79.90  
 Volume[CD]: 285.45  
 Dx: 3.718 Dm:  
 S.G.: C2/m (12)  
 Cell Parameters:  
 a 12.20 b 3.748 c 6.535  
 α β 107.36 γ  
 SS/FOM: F30=66(.0082, 55)  
 I/cor:  
 Rad: CuKα1  
 Lambda: 1.54063  
 Filter: Ge  
 d-sp: calculated

β-Ti O2  
 Titanium Oxide  
 Ref: Kaduk, J., Chen, Y.-M., Amoco Corporation, Naperville, IL, USA, Private Communication, (1994)

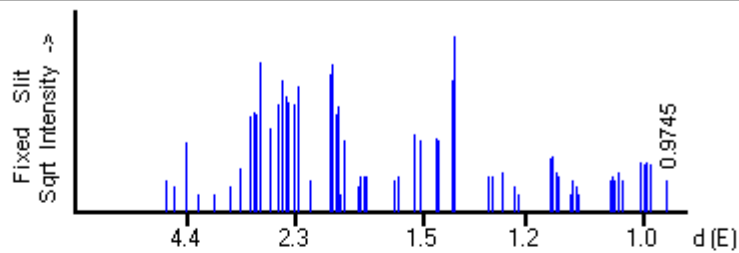


d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l
6.2350	490	0	0	1	1.5208	47	7	1	0	1.0570	18	6	0	6
5.8236	793	2	0	0	1.5082	11	4	2	2	1.0517	47	3	1	5
5.0806	124	2	0	1	1.5022	111	3	1	3	1.0517	47	1	3	3
3.7351	172	2	0	1	1.4936	21	4	0	3	1.0452	20	3	1	6
3.5685	999	1	1	0	1.4902	80	3	1	4	1.0429	16	9	1	2
3.2272	13	1	1	1	1.4724	11	4	2	1	1.0382	21	0	2	5
3.1711	52	2	0	2	1.4632	20	6	0	2	1.0309	11	9	1	5
3.1175	495	0	0	2	1.4444	36	6	0	4	1.0206	20	10	2	2
3.0051	367	4	0	1	1.4272	49	7	1	3	1.0161	21	10	0	5
2.9816	218	1	1	1	1.3919	110	0	2	3	1.0155	42	7	3	1
2.9118	105	4	0	0	1.3784	75	6	2	1	.99920	13	7	3	0
2.6968	147	3	1	0	1.2647	15	6	2	1	.99388	29	3	3	3
2.6868	169	3	1	1	1.2566	47	6	2	3	.99039	21	3	3	4
2.5403	20	4	0	2	1.2470	16	0	0	5	.98930	13	10	2	0
2.4595	15	2	0	2	1.2424	38	3	1	4	.96472	13	7	1	4
2.0783	236	0	0	3	1.2424	38	1	3	0	.93721	12	0	4	0
2.0341	263	6	0	1	1.2398	61	7	1	2	.92073	15	6	2	6
1.9974	11	4	0	3	1.2233	14	9	1	0	.91070	21	13	1	2
1.8742	302	0	2	0	1.2105	33	4	2	4	.90844	27	3	1	6
1.7949	17	2	0	3	1.1890	22	3	3	0	.90545	26	7	3	2
1.7949	17	0	2	1	1.1890	22	3	3	1	.90350	26	3	1	7
1.7284	103	1	1	3	1.1681	20	4	2	3	.89963	15	13	1	1
1.7137	21	6	0	1	1.1647	10	10	0	0	.89753	15	0	4	2
1.6935	75	6	0	3	1.1534	24	6	2	2	.89471	10	4	4	1
1.6753	23	2	2	1	1.1492	24	3	3	1	.89331	21	10	2	5
1.6064	86	0	2	2	1.1469	16	3	3	2	.87695	16	13	1	4
1.5904	78	4	2	1	1.1444	55	1	1	5	.85436	15	0	4	3
1.5855	123	4	0	4	1.1444	55	6	2	4	.85120	13	6	4	1
1.5802	195	7	1	1	1.1270	12	7	1	5					
1.5761	15	4	2	0	1.0630	11	11	1	2					



46-1131 Quality:  
 CAS Number: 1344-28-1  
 Molecular Weight: 101.96  
 Volume[CD]: 741.62  
 Dx: 2.740 Dm:  
 S.G.: P4m2 (115)  
 Cell Parameters:  
 a 5.599 b c 23.65  
 $\alpha$   $\beta$   $\gamma$   
 SS/FOM: F30=5(0.090, 69)  
 I/Cor:  
 Rad: CuK $\alpha$   
 Lambda: 1.5418  
 Filter:  
 d-sp: diffractometer

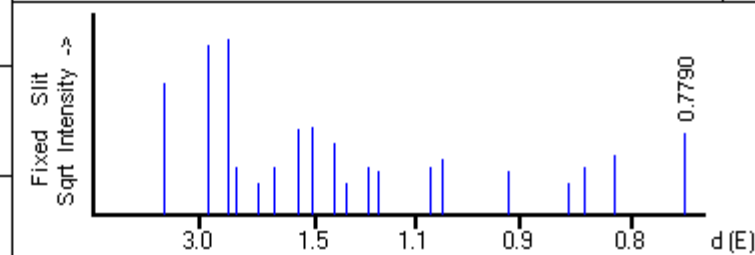
$\delta$ -Al<sub>2</sub>O<sub>3</sub>  
 Aluminum Oxide  
 Ref: Repelin, Y., Husson, E., Mater. Res. Bull., 25, 611 (1990)



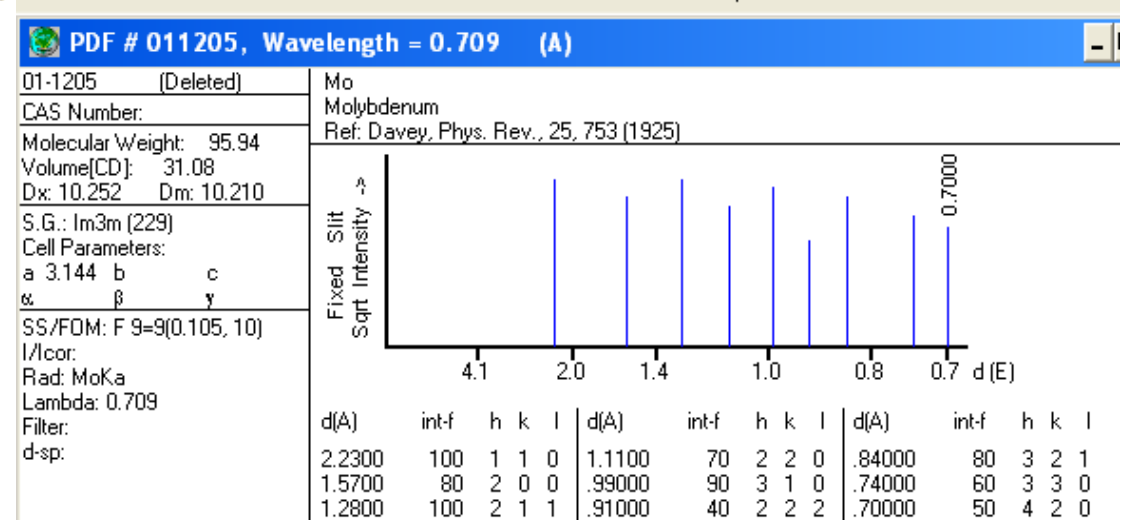
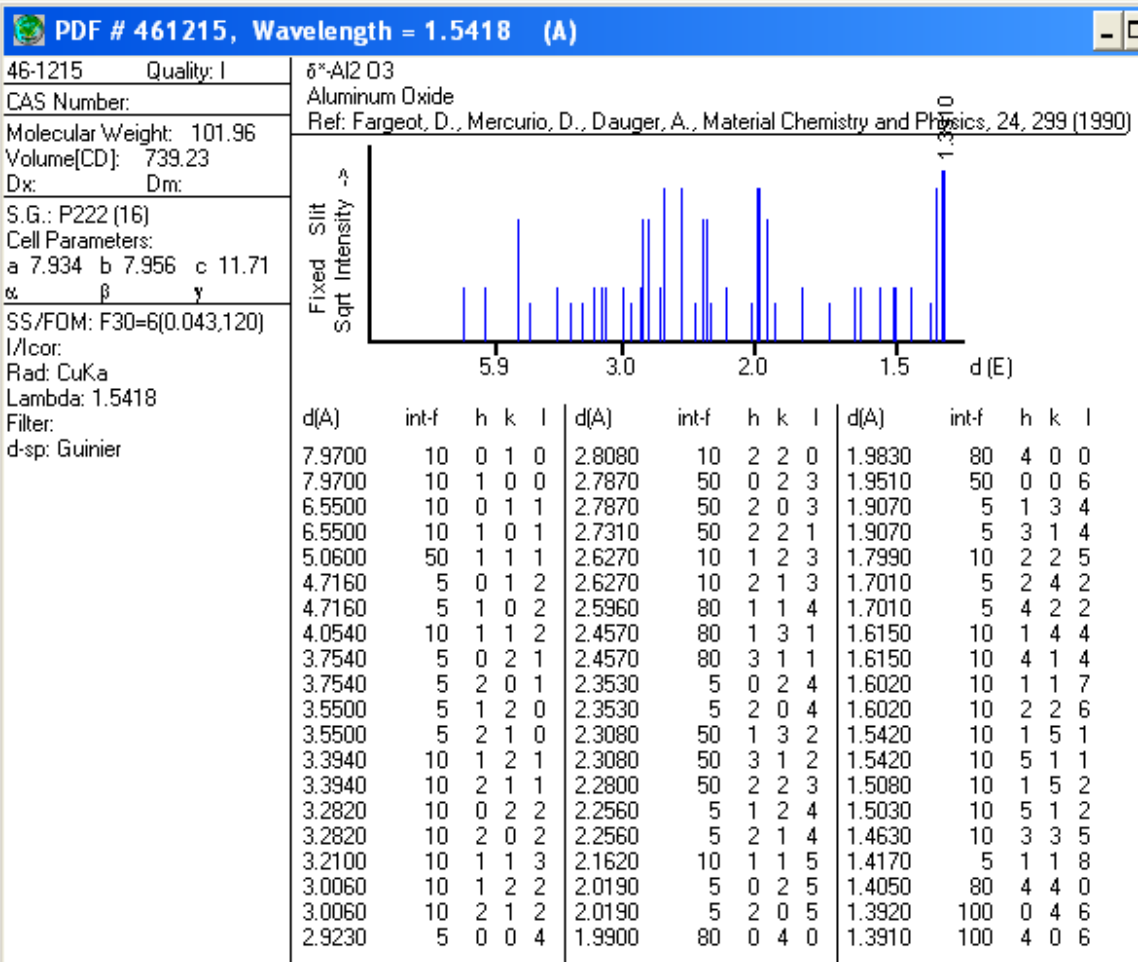
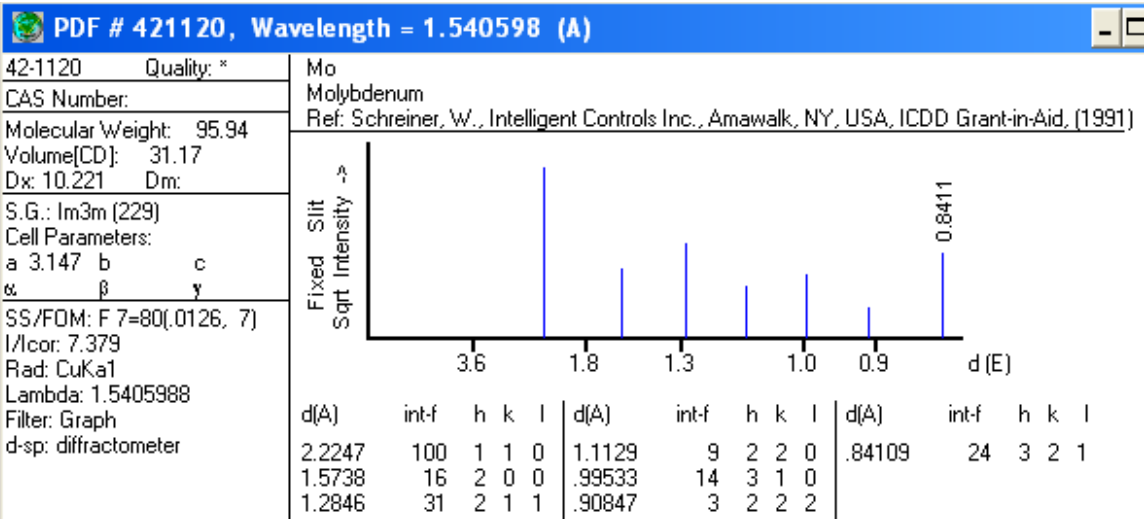
d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	
5.4666	3	0	1	1	1.9294	<1	[	2	2	3]	1.1444	10	2	3	14
5.0633	2	0	1	2	1.9132	16	2	0	9	1.1401	5	0	4	12	
4.5483	15	0	1	3	1.8178	2	0	3	3	1.1358	4	1	3	16	
4.0733	<1	0	1	4	1.8060	4b	2	0	10	1.1128	1	0	5	2	
3.6099	<1	0	1	5	1.7858	4	0	3	4	1.1108	1	0	4	13	
3.2291	2	0	1	6	1.7710	4	1	3	0	1.1108	1	0	5	3	
3.0495	6	1	1	5	1.7710	4	2	2	6	1.1072	3	2	4	10	
2.8804	29	0	1	7	1.6284	3	1	2	11	1.1072	3	2	3	15	
2.8115	32	0	2	0	1.6101	4	2	0	12	1.1008	2	0	5	4	
2.7859	30	0	2	1	1.5381	19	2	3	2	1.0969	1	1	5	0	
2.7280	71	0	2	2	1.5171	16	1	3	8	1.0477	3b	0	5	8	
2.5901	22	1	1	7	1.5171	16	2	2	10	1.0477	3b	0	4	15	
2.4925	37	1	2	1	1.4559	17	2	2	11	1.0442	4	1	5	7	
2.4427	56	1	2	2	1.4454	16	0	2	14	1.0398	3b	3	3	14	
2.4086	43	0	2	5	1.3996	56	0	4	0	1.0398	3b	2	5	0	
2.3876	38	1	2	3	1.3959	90	0	4	1	1.0356	5	2	5	2	
2.3730	34	1	0	9	1.3959	90	2	2	12	1.0300	3	3	4	9	
2.3154	37	1	2	4	1.3911	100	0	4	2	1.0066	8	2	4	14	
2.2794	50	0	2	6	1.2918	4	0	4	7	1.0066	8	2	5	6	
2.1601	3	0	2	7	1.2837	4	2	2	14	.99960	7	1	4	16	
2.0136	45	1	2	7	1.2589	5	1	4	7	.99650	8	1	5	10	
2.0060	60	0	1	11	1.2589	5	2	3	11	.99280	7	0	5	11	
1.9860	70	2	2	0	1.2265	2	3	3	7	.97450	3	3	4	12	
1.9688	30	2	2	1	1.2171	<1	2	3	12						
1.9473	36	2	2	2	1.1506	9	2	4	8						

47-1292 Quality: I  
 CAS Number: 1344-28-1  
 Molecular Weight: 101.96  
 Volume[CD]: 501.47  
 Dx: 2.701 Dm: 3.550  
 S.G.: Fd3m (227)  
 Cell Parameters:  
 a 7.944 b c  
 $\alpha$   $\beta$   $\gamma$   
 SS/FOM: F19=23(0.026, 32)  
 I/Cor:  
 Rad:  
 Lambda:  
 Filter:  
 d-sp:

$\sigma$ -Al<sub>2</sub>O<sub>3</sub>  
 Aluminum Oxide  
 Ref: Guse, W., Saalfeld, H., Neues Jahrb. Mineral., Monatsh., 1990, 217 (1990)



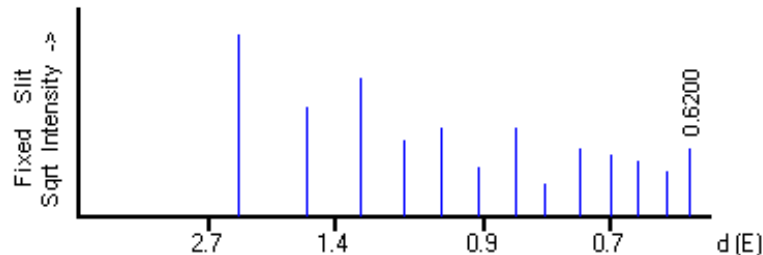
d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l
4.5880	56	1	1	1	1.5290	24	5	1	1	.91700	6	7	5	1
2.8100	93	2	2	0	1.4050	16	4	4	0	.84700	3	6	6	4
2.3960	100	3	1	1	1.3430	3	5	3	1	.83300	7	9	3	1
2.2940	7	2	2	2	1.2560	7	6	2	0	.81100	11	8	4	4
1.9870	3	4	0	0	1.2120	6	5	3	3	.77900	21	8	6	2
1.8230	7	3	3	1	1.0620	7	6	4	2					
1.6220	23	4	2	2	1.0340	10	5	5	3					



PDF # 011207, Wavelength = 0.709 (Å)

01-1207 (Deleted)  
 CAS Number:  
 Molecular Weight: 95.94  
 Volume[CD]: 30.96  
 Dx: 10.292 Dm: 10.200  
 S.G.: Im3m (229)  
 Cell Parameters:  
 a 3.140 b c  
 α β γ  
 SS/FOM: F12=9(0.113, 12)  
 I/cor:  
 Rad: MoKα  
 Lambda: 0.709  
 Filter: ZrO2  
 d-sp:

Mo  
 Molybdenum  
 Ref: Hanawalt et al., Anal. Chem., 10, 475 (1938)

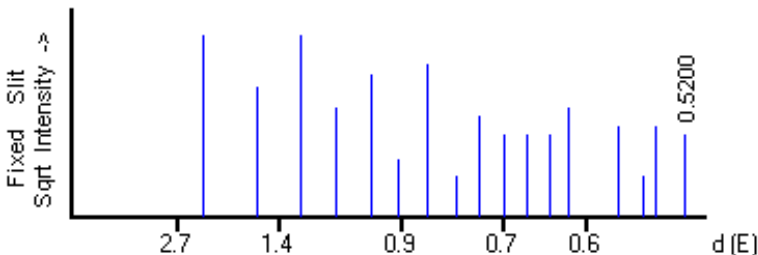


d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l
2.2200	100	1	1	0	.91000	7	2	2	2	.67000	9	3	3	2
1.5700	36	2	0	0	.84000	23	3	2	1	.64000	6	4	2	2
1.2800	57	2	1	1	.79000	3	4	0	0	.62000	14			
1.1100	17	2	2	0	.74000	14	3	3	0					
1.0000	23	3	1	0	.70000	11	4	2	0					

PDF # 011208, Wavelength = 0.709 (Å)

01-1208 (Deleted)  
 CAS Number:  
 Molecular Weight: 95.94  
 Volume[CD]: 31.05  
 Dx: 10.262 Dm: 10.160  
 S.G.: Im3m (229)  
 Cell Parameters:  
 a 3.143 b c  
 α β γ  
 SS/FOM: F14=6(0.150, 15)  
 I/cor:  
 Rad: MoKα  
 Lambda: 0.709  
 Filter:  
 d-sp:

Mo  
 Molybdenum  
 Ref: Hull, Phys. Rev., 17, 571 (1921)

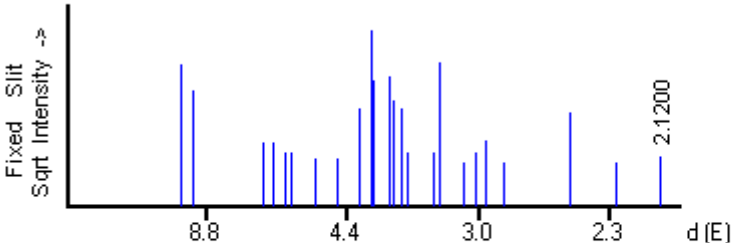


d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l
2.2200	100	1	1	0	.84000	70	3	2	1	.62000	35	5	1	0
1.5700	50	2	0	0	.78000	5	4	0	0	.57000	25			
1.2800	100	2	1	1	.74000	30	3	3	0	.55000	5			
1.1100	35	2	2	0	.70000	20	4	2	0	.54000	25	5	3	0
.99000	60	3	1	0	.67000	20	3	3	2	.52000	20			
.91000	10	2	2	2	.64000	20	4	2	2					

PDF # 470718, Wavelength = 1.5418 (Å)

47-0718 Quality: 0  
 CAS Number:  
 Molecular Weight: 60.08  
 Volume[CD]:  
 Dx: Dm:  
 S.G.:  
 Cell Parameters:  
 a b c  
 α β γ  
 SS/FOM: F = ( . )  
 I/cor:  
 Rad: CuKα  
 Lambda: 1.5418  
 Filter:  
 d-sp: diffractometer

Si O2  
 Silicon Oxide  
 Ref: Young, D., 4,325,929, U.S. Patent, (1982)



d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l	d(Å)	int-f	h	k	l
10.900	64				4.2300	31				3.3300	66			
9.8300	42				4.0600	100				3.1300	6			
6.2800	13				4.0200	51				3.0300	9			
5.9500	13				3.8300	54				2.9700	14			
5.6600	9				3.7900	35				2.8400	6			
5.5200	9				3.7000	30				2.4800	28			
4.9600	7				3.6300	9				2.2800	6			
4.5800	7				3.3800	9				2.1200	8			