

PDF#35-0792: QM=Common(+); d=Diffractometer; l=(Unknown)													PDF Card
Magnesium Titanium Oxide													
MgTi2O5													
Radiation=CuKa1				Lambda=1.5406				Filter=					
Calibration=				2T=17.763-88.845				I/Ic(RIR)=					
Ref: Level-1 PDF													
Orthorhombic, Bbmm(63)								Z=4		mp=			
CELL: 9.7501 x 9.9802 x 3.7483 <90.0 x 90.0 x 90.0>								P.S=					
Density(c)=3.644		Density(m)=		Mwt=		Vol=364.7							
Ref: Ibid.													
Strong Lines: 3.50/X 2.75/8 1.87/4 1.55/4 4.88/3 1.97/3 1.53/3 2.19/2													
69 Lines, Wavelength to Compute Theta = 1.54056?(Cu), I%-Type = (Unknown)													
#	d(?)	I(f)	(h k l)	2-Theta	Theta	1/(2d)	#	d(?)	I(f)	(h k l)	2-Theta	Theta	1/(2d)
1	4.9893	20.0	(0 2 0)	17.763	8.881	0.1002	36	1.5025	8.0	(1 6 1)	61.682	30.841	0.3328
2	4.8776	32.0	(2 0 0)	18.173	9.086	0.1025	37	1.4986	3.0	(0 4 2)	61.860	30.930	0.3336
3	4.3805	4.0	(2 1 0)	20.255	10.128	0.1141	38	1.4853	3.0	(4 0 2)	62.478	31.239	0.3366
4	3.4988	100.0	(1 0 1)	25.436	12.718	0.1429	39	1.4598	5.0	(6 3 0)	63.696	31.848	0.3425
5	3.3016	5.0	(1 1 1)	26.983	13.492	0.1514	40	1.4321	7.0	(2 4 2)	65.075	32.538	0.3491
6	2.8636	9.0	(1 2 1)	31.208	15.604	0.1746	41	1.4240	11.0	(4 2 2)	65.493	32.747	0.3511
7	2.7478	80.0	(2 3 0)	32.559	16.280	0.1820	42	1.3772	7.0	(3 6 1)	68.013	34.007	0.3630
8	2.4944	1.0	(0 4 0)	35.974	17.987	0.2004	43	1.3739	3.0	(4 6 0)	68.200	34.100	0.3639
9	2.4559	20.0	(3 0 1)	36.558	18.279	0.2036	44	1.3686	4.0	(2 7 0)	68.501	34.250	0.3653
10	2.4374	9.0	(4 0 0)	36.845	18.423	0.2051	45	1.3569	13.0	(4 3 2)	69.177	34.589	0.3685
11	2.4108	18.0	(1 3 1)	37.267	18.634	0.2074	46	1.3202	5.0	(1 7 1)	71.390	35.695	0.3787
12	2.3846	2.0	(3 1 1)	37.692	18.846	0.2097	47	1.3152	10.0	(2 5 2)	71.699	35.849	0.3802
13	2.3690	2.0	(4 1 0)	37.949	18.974	0.2111	48	1.3072	3.0	(5 5 1)	72.210	36.105	0.3825
14	2.2213	21.0	(2 4 0)	40.579	20.289	0.2251	49	1.3053	3.0	(7 0 1)	72.332	36.166	0.3831
15	2.1889	22.0	(4 2 0)	41.208	20.604	0.2284	50	1.2947	6.0	(7 1 1)	73.017	36.508	0.3862
16	2.0311	2.0	(1 4 1)	44.573	22.286	0.2462	51	1.2633	9.0	(7 2 1)	75.139	37.570	0.3958
17	1.9753	12.0	(3 3 1)	45.903	22.951	0.2531	52	1.2604	5.0	(6 5 0)	75.347	37.673	0.3967
18	1.9662	31.0	(4 3 0)	46.129	23.064	0.2543	53	1.2474	2.0	(0 8 0)	76.271	38.135	0.4008
19	1.8737	38.0	(0 0 2)	48.548	24.274	0.2669	54	1.2439	8.0	(0 6 2)	76.524	38.262	0.4020
20	1.8471	18.0	(2 5 0)	49.294	24.647	0.2707	55	1.2330	2.0	(3 7 1)	77.320	38.660	0.4055
21	1.7547	4.0	(0 2 2)	52.076	26.038	0.2849	56	1.2306	2.0	(4 7 0)	77.506	38.753	0.4063
22	1.7495	20.0	(2 0 2)	52.243	26.121	0.2858	57	1.2279	2.0	(6 0 2)	77.707	38.853	0.4072
23	1.7337	3.0	(1 5 1)	52.758	26.379	0.2884	58	1.2186	3.0	(6 1 2)	78.414	39.207	0.4103
24	1.7295	3.0	(5 0 1)	52.894	26.447	0.2891	59	1.2153	3.0	(7 3 1)	78.663	39.331	0.4114
25	1.7226	1.0	(2 1 2)	53.125	26.562	0.2903	60	1.2053	4.0	(2 6 2)	79.443	39.721	0.4148
26	1.7044	4.0	(5 1 1)	53.737	26.868	0.2934	61	1.1839	2.0	(8 2 0)	81.176	40.588	0.4223
27	1.6638	16.0	(0 6 0)	55.156	27.578	0.3005	62	1.1663	3.0	(3 0 3)	82.671	41.336	0.4287
28	1.6503	3.0	(2 2 2)	55.647	27.823	0.3030	63	1.1615	3.0	(1 3 3)	83.083	41.542	0.4305
29	1.6342	18.0	(5 2 1)	56.245	28.123	0.3060	64	1.1586	2.0	(3 1 3)	83.343	41.672	0.4316
30	1.6252	3.0	(6 0 0)	56.583	28.291	0.3077	65	1.1569	2.0	(7 4 1)	83.489	41.744	0.4322
31	1.6042	6.0	(6 1 0)	57.392	28.696	0.3117	66	1.1519	3.0	(6 3 2)	83.931	41.965	0.4341
32	1.5741	5.0	(2 6 0)	58.596	29.298	0.3176	67	1.1123	3.0	(3 8 1)	87.657	43.829	0.4495
33	1.5482	37.0	(2 3 2)	59.673	29.836	0.3229	68	1.1107	2.0	(4 8 0)	87.821	43.910	0.4502
34	1.5443	20.0	(4 5 0)	59.840	29.920	0.3238	69	1.1005	3.0	(3 3 3)	88.845	44.422	0.4543
35	1.5349	25.0	(5 3 1)	60.245	30.123	0.3258							