

Tabela 7: Dane strukturalne związku międzymetalicznego $Gd(Fe_{0.4}Co_{0.6})_2$ (300K) wygrzewanego w 1073K przez 168 godzin w próżni

d_{hkl} [Å]	h	k	l	$2\Theta(^{\circ})$	$\Gamma(^{\circ})$	I_{calc}	I_{obs}	$(I_{obs} - I_{calc})$
2.5927	2	2	0	15.724	0.178	394.4	431.2	36.8
2.2111	3	1	1	18.46	0.177	774	748.9	-25.1
2.1169	2	2	2	19.288	0.177	159.7	170.3	10.6
1.8333	4	0	0	22.308	0.175	0.1	0.3	0.2
1.6824	3	3	1	24.339	0.174	13.4	0	-13.4
1.4969	4	2	2	27.41	0.172	161.7	162.4	0.7
1.4113	3	3	3	29.108	0.171	56.8	61.3	4.5
1.4113	5	1	1	29.108	0.171	170.4	183.8	13.4
1.2964	4	4	0	31.754	0.169	161.3	164.1	2.8
1.2396	5	3	1	33.25	0.168	18.1	15.4	-2.7
1.2222	4	4	2	33.736	0.167	0	0	0
1.1595	6	2	0	35.62	0.166	67.6	66.6	-1
1.1183	5	3	3	36.979	0.164	65.9	65.1	-0.8
1.1055	6	2	2	37.422	0.164	26.8	28.5	1.7
1.0585	4	4	4	39.152	0.162	1.9	0	-1.9
1.0269	5	5	1	40.409	0.16	6.6	1.6	-5
1.0269	7	1	1	40.409	0.16	6.6	1.6	-5
0.98	6	4	2	42.434	0.158	71.7	76.2	4.5
0.9547	5	5	3	43.613	0.156	32	35.7	3.7
0.9547	7	3	1	43.613	0.156	64	71.5	7.5
0.9167	8	0	0	45.522	0.154	16.3	16.3	0
0.8959	7	3	3	46.639	0.152	4.9	5.4	0.5
0.8893	6	4	4	47.006	0.152	0	0	0
0.8642	6	6	0	48.455	0.149	10.7	11	0.3
0.8642	8	2	2	48.455	0.149	21.5	21.9	0.4
0.8468	5	5	5	49.52	0.147	5.9	6.3	0.4
0.8468	7	5	1	49.52	0.147	35.4	37.6	2.2
0.8412	6	6	2	49.872	0.147	4.3	4.8	0.5
0.8199	8	4	0	51.26	0.144	5.1	0.8	-4.3
0.8049	7	5	3	52.284	0.142	7.4	1.8	-5.6
0.8049	9	1	1	52.284	0.142	3.7	0.9	-2.8
0.8001	8	4	2	52.622	0.142	0	0	0
0.7817	6	6	4	53.959	0.139	13.8	12.3	-1.5
0.7687	9	3	1	54.947	0.137	21.3	16.5	-4.8
0.7485	8	4	4	56.568	0.133	21.8	26.7	4.9
0.737	7	5	5	57.526	0.131	2.8	1.5	-1.3
0.737	7	7	1	57.526	0.131	2.8	1.5	-1.3
0.737	9	3	3	57.526	0.131	2.8	1.5	-1.3
0.7191	8	6	2	59.101	0.127	18.7	17.4	-1.3
0.7191	10	2	0	59.101	0.127	9.3	8.7	-0.6
Faza regularna ściennie centrowana $Fd3m$ typu $MgCu_2$ $R_p = 8.43$ $R_{wp} = 10.8$ $R_e = 6.39$ $\chi^2 = 2.84$ $a = 7.333329 \pm 0.001249$ $V = 394.370 \pm 0.116$ Udział procentowy fazy: 100%								

Tabela 8: Dane strukturalne związku międzymetalicznego $Gd(Fe_{0.3}Co_{0.7})_2$ (300K) wygrzewanego w 1073K przez 168 godzin w próżni

d_{hkl} [Å]	h	k	l	$2\Theta(^{\circ})$	$\Gamma(^{\circ})$	I_{calc}	I_{obs}	$(I_{obs} - I_{calc})$
2.5881	2	2	0	15.752	0.15	429.4	491.1	61.7
2.2071	3	1	1	18.493	0.15	846.1	822.9	-23.2
2.1132	2	2	2	19.323	0.149	176.2	178.1	1.9
1.8301	4	0	0	22.348	0.148	0.1	0	-0.1
1.6794	3	3	1	24.383	0.147	13.8	0	-13.8
1.4942	4	2	2	27.46	0.145	173.3	183.2	9.9
1.4088	3	3	3	29.161	0.144	61.4	65.9	4.5
1.4088	5	1	1	29.161	0.144	184.2	197.8	13.6
1.294	4	4	0	31.812	0.143	174.2	192.5	18.3
1.2373	5	3	1	33.312	0.142	18.3	25.1	6.8
1.22	4	4	2	33.798	0.141	0	0	0
1.1574	6	2	0	35.686	0.14	71.3	59.4	-11.9
1.1163	5	3	3	37.047	0.139	70.3	66.1	-4.2
1.1036	6	2	2	37.491	0.138	29.3	27	-2.3
1.0566	4	4	4	39.225	0.137	1.9	0	-1.9
1.025	5	5	1	40.484	0.135	6.6	1.7	-4.9
1.025	7	1	1	40.484	0.135	6.6	1.7	-4.9
0.9782	6	4	2	42.514	0.133	74.6	78.1	3.5
0.953	5	5	3	43.695	0.132	33.7	39.8	6.1
0.953	7	3	1	43.695	0.132	67.4	79.6	12.2
0.915	8	0	0	45.608	0.13	17.2	24.2	7
0.8943	7	3	3	46.727	0.128	4.9	1.9	-3
0.8877	6	4	4	47.095	0.128	0	0	0
0.8627	6	6	0	48.547	0.126	11	12.9	1.9
0.8627	8	2	2	48.547	0.126	22	25.9	3.9
0.8453	5	5	5	49.615	0.124	6.1	6.3	0.2
0.8453	7	5	1	49.615	0.124	36.7	37.9	1.2
0.8397	6	6	2	49.967	0.124	4.7	5.5	0.8
0.8184	8	4	0	51.358	0.122	4.9	1	-3.9
0.8035	7	5	3	52.384	0.12	7.3	0.8	-6.5
0.8035	9	1	1	52.384	0.12	3.7	0.4	-3.3
0.7987	8	4	2	52.723	0.119	0	0	0
0.7803	6	6	4	54.063	0.117	14	10.4	-3.6
0.7674	9	3	1	55.054	0.115	21.8	22.8	1
0.7471	8	4	4	56.678	0.112	22.3	27.6	5.3
0.7357	7	5	5	57.639	0.11	2.7	1.1	-1.6
0.7357	7	7	1	57.639	0.11	2.7	1.1	-1.6
0.7357	9	3	3	57.639	0.11	2.7	1.1	-1.6
0.7178	8	6	2	59.217	0.107	18.6	17.1	-1.5
0.7178	10	2	0	59.217	0.107	9.3	8.6	-0.7
Faza regularna ściennie centrowana $Fd3m$ typu $MgCu_2$ $R_p = 10.8$ $R_{wp} = 13.3$ $R_e = 6.41$ $\chi^2 = 4.33$ $a = 7.320241 \pm 0.000974$ $V = 392.262 \pm 0.090$ Udział procentowy fazy: 100%								

Tabela 9: Dane strukturalne związku międzymetalicznego $Gd(Fe_{0.2}Co_{0.8})_2$ (300K) wygrzewanego w 1073K przez 168 godzin w próżni

d_{hkl} [Å]	h	k	l	$2\Theta(^{\circ})$	$\Gamma(^{\circ})$	I_{calc}	I_{obs}	$(I_{obs} - I_{calc})$
2.5817	2	2	0	15.792	0.154	422	455.3	33.3
2.2017	3	1	1	18.539	0.152	835.1	834.8	-0.3
2.1079	2	2	2	19.372	0.152	175.3	179.8	4.5
1.8255	4	0	0	22.404	0.151	0.1	0.1	0
1.6752	3	3	1	24.444	0.149	12.7	0	-12.7
1.4905	4	2	2	27.529	0.147	166.7	166.4	-0.3
1.4053	3	3	3	29.235	0.146	59.4	65.5	6.1
1.4053	5	1	1	29.235	0.146	178.2	196.5	18.3
1.2908	4	4	0	31.893	0.144	168	172.1	4.1
1.2343	5	3	1	33.397	0.143	16.7	22.4	5.7
1.217	4	4	2	33.885	0.142	0	0	0
1.1546	6	2	0	35.778	0.14	67.2	76.7	9.5
1.1136	5	3	3	37.142	0.139	66.8	64.9	-1.9
1.1008	6	2	2	37.588	0.138	28.6	27.5	-1.1
1.054	4	4	4	39.326	0.136	1.6	0	-1.6
1.0225	5	5	1	40.589	0.135	5.9	0.5	-5.4
1.0225	7	1	1	40.589	0.135	5.9	0.5	-5.4
0.9758	6	4	2	42.625	0.132	68.7	76.9	8.2
0.9507	5	5	3	43.809	0.131	31.4	33.7	2.3
0.9507	7	3	1	43.809	0.131	62.8	67.5	4.7
0.9128	8	0	0	45.728	0.128	16	22.9	6.9
0.8921	7	3	3	46.85	0.126	4.3	0.5	-3.8
0.8855	6	4	4	47.219	0.125	0	0	0
0.8606	6	6	0	48.675	0.123	9.9	10.2	0.3
0.8606	8	2	2	48.675	0.123	19.8	20.3	0.5
0.8432	5	5	5	49.747	0.121	5.6	5	-0.6
0.8432	7	5	1	49.747	0.121	33.5	29.9	-3.6
0.8376	6	6	2	50.1	0.12	4.5	5.6	1.1
0.8164	8	4	0	51.495	0.117	4.1	0	-4.1
0.8015	7	5	3	52.524	0.115	6.3	1.6	-4.7
0.8015	9	1	1	52.524	0.115	3.1	0.8	-2.3
0.7967	8	4	2	52.864	0.115	0	0	0
0.7784	6	6	4	54.208	0.112	12.3	7.1	-5.2
0.7655	9	3	1	55.202	0.109	19.5	20.3	0.8
0.7453	8	4	4	56.832	0.105	19.9	27.6	7.7
0.7339	7	5	5	57.795	0.102	2.3	2.1	-0.2
0.7339	7	7	1	57.795	0.102	2.3	2.1	-0.2
0.7339	9	3	3	57.795	0.102	2.3	2.1	-0.2
0.716	8	6	2	59.379	0.098	16	13	-3
0.716	10	2	0	59.379	0.098	8	6.5	-1.5
Faza regularna ściennie centrowana $Fd\bar{3}m$ typu $MgCu_2$ $R_p = 9.49$ $R_{wp} = 12.1$ $R_e = 6.52$ $\chi^2 = 3.43$ $a = 7.302109 \pm 0.000920$ $V = 389.354 \pm 0.085$ Udział procentowy fazy: 100%								

Tabela 10: Dane strukturalne związku międzymetalicznego $Gd(Fe_{0.1}Co_{0.9})_2$ (300K) wygrzewanego w 1073K przez 168 godzin w próżni

d_{hkl} [Å]	h	k	l	$2\Theta(^{\circ})$	$\Gamma(^{\circ})$	I_{calc}	I_{obs}	$(I_{obs} - I_{calc})$
2.5752	2	2	0	15.831	0.131	407.5	457.9	50.4
2.1962	3	1	1	18.586	0.13	820.1	832.5	12.4
2.1027	2	2	2	19.421	0.13	175.6	176.8	1.2
1.821	4	0	0	22.461	0.129	0.1	0	-0.1
1.671	3	3	1	24.507	0.128	11.1	0	-11.1
1.4868	4	2	2	27.6	0.126	162.6	153	-9.6
1.4018	3	3	3	29.31	0.125	59.7	64.8	5.1
1.4018	5	1	1	29.31	0.125	179.1	194.4	15.3
1.2876	4	4	0	31.975	0.124	171.2	182.4	11.2
1.2312	5	3	1	33.483	0.123	14.7	26.5	11.8
1.214	4	4	2	33.972	0.123	0	0	0
1.1517	6	2	0	35.87	0.121	66.3	74.1	7.8
1.1108	5	3	3	37.239	0.12	68.5	70.8	2.3
1.0981	6	2	2	37.685	0.12	31.4	25.9	-5.5
1.0513	4	4	4	39.429	0.118	1.2	0	-1.2
1.0199	5	5	1	40.695	0.117	5.3	0.4	-4.9
1.0199	7	1	1	40.695	0.117	5.3	0.4	-4.9
0.9733	6	4	2	42.737	0.116	69	70.8	1.8
0.9483	5	5	3	43.924	0.114	32.8	35.3	2.5
0.9483	7	3	1	43.924	0.114	65.7	70.6	4.9
0.9105	8	0	0	45.849	0.112	17	24.2	7.2
0.8899	7	3	3	46.974	0.111	3.9	1.8	-2.1
0.8833	6	4	4	47.345	0.111	0	0	0
0.8584	6	6	0	48.805	0.109	10	10.5	0.5
0.8584	8	2	2	48.805	0.109	20.1	20.9	0.8
0.8411	5	5	5	49.88	0.108	6	6.5	0.5
0.8411	7	5	1	49.88	0.108	35.7	39.2	3.5
0.8355	6	6	2	50.234	0.107	5.4	6	0.6
0.8144	8	4	0	51.634	0.105	3.5	0	-3.5
0.7995	7	5	3	52.666	0.104	5.8	2	-3.8
0.7995	9	1	1	52.666	0.104	2.9	1	-1.9
0.7947	8	4	2	53.007	0.103	0	0	0
0.7765	6	6	4	54.355	0.101	12.6	12.8	0.2
0.7636	9	3	1	55.352	0.1	21	26.3	5.3
0.7434	8	4	4	56.987	0.097	22	28.6	6.6
0.7321	7	5	5	57.954	0.095	2.2	1.7	-0.5
0.7321	7	7	1	57.954	0.095	2.2	1.7	-0.5
0.7321	9	3	3	57.954	0.095	2.2	1.7	-0.5
0.7142	8	6	2	59.543	0.092	16.5	17.1	0.6
0.7142	10	2	0	59.543	0.092	8.3	8.5	0.2
Faza regularna ściennie centrowana $Fd3m$ typu $MgCu_2$ $R_p = 11.1$ $R_{wp} = 14.1$ $R_e = 6.50$ $\chi^2 = 4.68$ $a = 7.283864 \pm 0.000878$ $V = 386.443 \pm 0.081$ Udział procentowy fazy: 100%								