

Volume 27

Magnetic Properties of Non-Metallic Inorganic Compounds Based on Transition Elements

Subvolume D

Oxy-Spinels

	Introductory material	
3	Magnetic properties of oxy-spinels	1
3.1	Binary oxy-spinels (Co_3O_4 , Fe_3O_4 , $\gamma\text{-Fe}_2\text{O}_3$, Mn_3O_4) (V.A.M. BRABERS, T.E. WHALL)	1
3.1.1	List of symbols and abbreviations	1
3.1.2	Cobalt oxide, Co_3O_4	4
	References for 3.1.2	16
3.1.3	Magnetite, Fe_3O_4	17
	References for 3.1.3	72
3.1.4	Maghemite, $\gamma\text{-Fe}_2\text{O}_3$	77
	References for 3.1.4	85
3.1.5	Hausmannite, Mn_3O_4	86
	References for 3.1.5	99
3.2	Iron oxy-spinels (V.A.M. BRABERS)	100
3.2.1	Introduction	100
3.2.2	Fe-oxide spinels containing Al, Ca or Cd	106
	References for 3.2.2	141
3.2.3	Fe-oxide spinels containing Co	143
	References for 3.2.3	173
3.2.4	Fe-oxide spinels containing Cr	175
	References for 3.2.4	189
3.2.5	Fe-oxide spinels containing Cu	190
	References for 3.2.5	216
3.2.6	Fe-oxide spinels containing Ga, Ge, In, Li or Mg	218
	References for 3.2.6	267
3.2.7	Fe-oxide spinels containing Mn, Mo	270
	References for 3.2.7	301
3.2.8	Fe-oxide spinels containing Ni	303
	References for 3.2.8	331
3.2.9	Fe-oxide spinels containing Sb, Sn, Ti, V or Zn	333
	References for 3.2.9	365
3.3	Non-iron oxy-spinels (E. AGOSTINELLI, D. FIORANI, A.M. TESTA)	367
3.3.1	Introduction	367
3.3.2	General properties of oxide spinels	370
	References for 3.3.2	374
3.3.3	Al-oxide spinels and Al-oxide spinels with substitutions	375
	References for 3.3.3	386
3.3.4	Co-oxide spinels and Co-oxide spinels with substitutions	387
	References for 3.3.4	400
3.3.5	Cr-oxide spinels and Cr-oxide spinels with substitutions	401

	References for 3.3.5	420
3.3.6	Ga-oxide spinels and Ga-oxide spinels with substitutions	421
	References for 3.3.6	426
3.3.7	Ge-oxide spinels and Ge-oxide spinels with substitutions	427
	References for 3.3.7	434
3.3.8	In-oxide spinels and In-oxide spinels with substitutions	434
	References for 3.3.8	436
3.3.9	Mn-oxide spinels and Mn-oxide spinels with substitutions	437
	References for 3.3.9	463
3.3.10	Rh-oxide spinels and Rh-oxide spinels with substitutions	465
	References for 3.3.10	469
3.3.11	Sb-oxide spinels and Sb-oxide spinels with substitutions	469
	References for 3.3.11	475
3.3.12	Sn-oxide spinels and Sn-oxide spinels with substitutions	475
	References for 3.3.12	478
3.3.13	Te-oxide spinels and Te-oxide spinels with substitutions	479
	Reference for 3.3.13	479
3.3.14	Ti-oxide spinels and Ti-oxide spinels with substitutions	480
	References for 3.3.14	495
3.3.15	V-oxide spinels and V-oxide spinels with substitutions	496
	References for 3.3.15	501

Oxy-Spinels / Oxy-Spinelle

1991, IX, 501 p. 1030 illus., Hardcover

ISBN: 978-3-540-53877-6