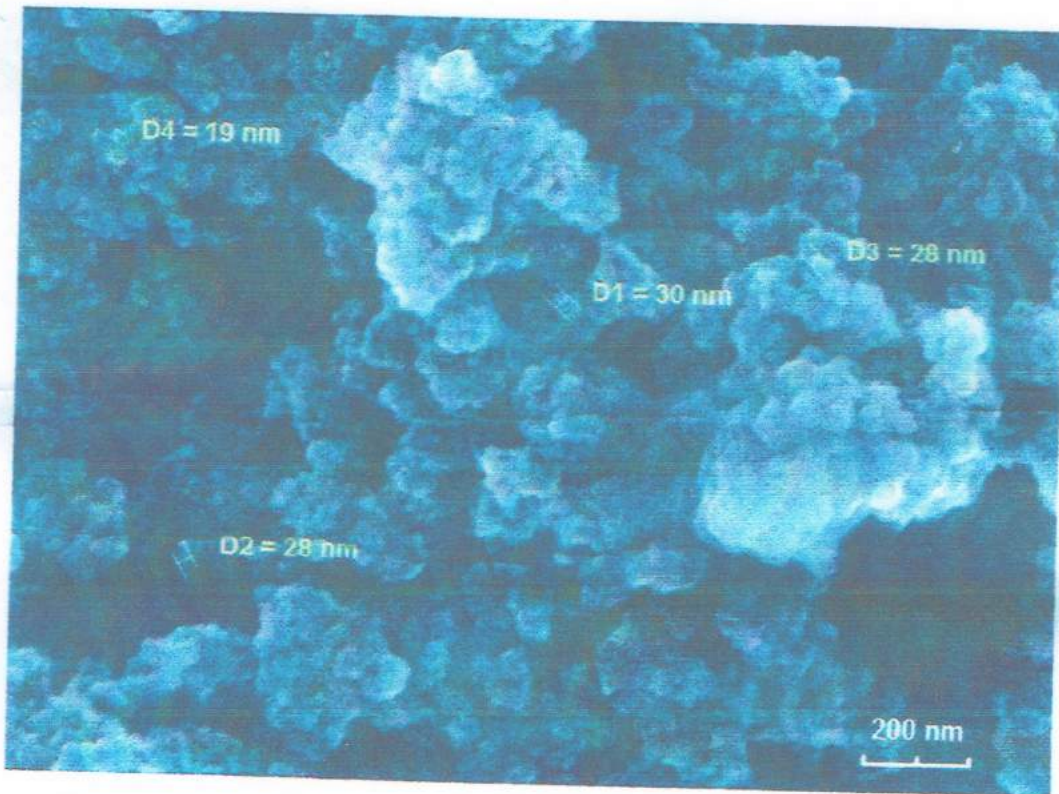


Nano Fe₂O₃

10 gm

Phase: Alpha

APS:20-30 nm



Nanjing Nano Technology -China

Phase	d(A)	Int	h	k	l	d(A)	Int
Magnetite - 0.5 wt	5.918	5	1	1	0	1.1365	1
	4.822	1	1	1	1	1.1159	1
	3.74	5	2	2	0	1.0966	1
	3.411	5	2	2	1	1.0872	1
	2.954	35	2	2	0	1.0439	1
	2.784	2	2	2	1		
	2.6433	2	1	1	0		
	2.5177	100	3	3	1		
	2.4119	3	2	2	2		
	2.3163	1	1	1	2		
2.2320	1	1	1	3			
2.0886	16	1	1	0			
2.0255	1	1	1	4			
1.9685	1	1	1	5			
1.8224	2	1	1	6			
1.7045	10	1	1	7			
1.6703	1	1	1	8			
1.6279	1	1	1	9			
1.6073	24	1	1	10			
1.5507	1	1	1	11			
1.5248	1	1	1	12			
1.4758	34	2	2	0			
1.4537	1	4	4	4			
1.4322	1	4	4	5			
1.3919	1	5	5	3			
1.3730	1	4	4	4			
1.3517	1	4	4	6			
1.3204	1	6	6	1			
1.3042	3	8	2	0			
1.273	1	5	4	0			
1.259	5	5	3	3			
1.245	2	6	2	2			
1.245	1	6	3	0			
1.2314	1	6	3	1			
1.2053	1	1	1	4			
1.1931	1	6	3	2			
1.1810	1	7	1	0			

Ref: Schulz, D., McCarthy, G., North Dakota State University, Fargo, North Dakota, USA, ICDD Grant-in-Aid, (1987)

Ref: Lindsay, D., Min. Soc. of America, Short Course Notes (Wash., D.C.), 3, 1-18 (1976)

Ref: Deer, W., Howie, R., Zussman, J., Rock Forming Minerals, 5, 73 (1961)

Color: Light brown
 Peak height intensity. Sample from Control Data as used in hard disks. Space group dependent upon preparation (Bernal et al). Optical data on specimen from Iron Mountain, Shasta County, California, USA. Pattern reviewed by Swinski, W., McCarthy, G., North Dakota State University, Fargo, North Dakota, USA, ICDD Grant-in-Aid (1990). Agrees well with experimental pattern. Additional weak reflections [indicated by brackets] were observed. $d(001) = 0.067$. Spinel group, related structures subgroup. Silicon used as an internal stand. Single-crystal data used, PSC, #P53.03. To replace 4-755 and 24-81. Mwt: 159.69. Volume [CD] 382-1.

$$(\gamma) = R(X)$$