

		4:1	3:1	2:1	5:1
2	Al ₂₋₃	39,15	37,6	35,49	-
	MgO	2,18	2,9	2,7	
	SiO ₂	53,64	59,5	62,08	
3	Al ₂₋₃	40,30	39,01	36,89	-
	MgO	2,35	2,62	3,07	
	SiO ₂	57,35	59,36	60,03	
5	Al ₂₋₃	39,82	40,71	36,33	-
	MgO	3,26	3,18	3,4	
	SiO ₂	56,92	56,11	68,27	
6	Al ₂₋₃	46,43	47,11	46,60	-
	MgO	1,74	2,09	1,87	
	SiO ₂	51,83	50,80	51,45	
7	Al ₂₋₃	40,29	39,02	36,89	-
	MgO	1,18	1,16	1,12	
	SiO ₂	58,53	59,82	61,99	
8	Al ₂₋₃	41,28	40,25	-	38,54
	MgO	1,59	1,67	-	1,79
	SiO ₂	57,13	58,08	-	59,67

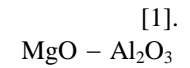
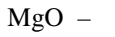
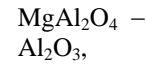
		4:1	3:1	2:1	1:4	1:3	1:2
6	Al ₂₋₃	40,34	40,11	38,68	-	-	-
	MgO	2,69	2,65	2,78			
	SiO ₂	56,97	57,22	55,54			
7	Al ₂₋₃	39,41	38,18	-	24,79	26,00	28,04
	MgO	2,44	2,34	-	1,23	1,32	1,49
	SiO ₂	58,15	59,47	-	73,98	72,68	70,47
8	Al ₂₋₃	40,39	39,41	37,80	-	-	
	MgO	1,84	2,84	2,84			
	SiO ₂	57,77	57,75	59,36			

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In this article the analysis of literature sources about spinel characteristics and its use for producing the ceramics and refractories as well unmolded one has been presented.



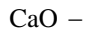
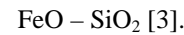
1925 ().

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[14] .

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[18].

1969.- 552 . **2.** , 1978. - 376 . **3.** Ko. Y.-C. Influence of the characteristics of spinels on the slag resistance of Al_2O_3 *MgO and Al_2O_3 -Spinel castables // J. Am. Ceram. Soc. 83 [9] (2000). **4.** Plibroco (), 1997. **5.** Sarcar R., Banerjee G. Effect of composition variation and fineness on the densification of MgO- Al_2O_3 compacts // J. Eur. Ceram. Soc. 1999. 19. 2893 – 2899. **6.** Mashio R.D., Fabbri B., Fiori C. Industrial applications of refractories containing magnesium aluminate spinel // Industrial Ceramics, 1988, 121 - 126. **7.** Serry M.A., Zawarah M.F.M., Telle R. Properties of commercial MgO- Al_2O_3 refractories as related to their phase composition and microstructure // CFI: Ceram. Forum Int. 1998. V. 75, 3. C. 114-19. **8.** // . 1996.- 48.- 1.- . 611. **9.** // . 1988. - . 40.- 10.- . 42. **10.** // . 1996. - . 8. - 4. - . 940. **11.** A. Yamaguchi, "Consideration on Improving Corrosion-Resistance of Refractories," Taikabutsu Overseas, 13 [4] 3-7 (1993). P. Korgul, D. R. Wilson, and W. E. Lee, "Microstructural Analysis of Corroded Alumina-Spinel-Castable Refractories," J. Eur. Ceram. Soc., 17, 77-84 (1997). **12.** S. Sumimura, T. Yamamura, Y. Kubata, and T. Kaneshige, "Study on Slag Penetration of Alumina-Spinel Castable"; pp. 97-101 in Proceedings of the Unified International Technical Conference on Refractories (UNITECR '93) (Sao Paulo, Brazil, 1993). **13.** De Hosson J. T. M., Hooijmans J., Popma R. Sintering behavior of nanoceramic coatings //Surface Engineering, 2000. V. 16. 2. . 245 – 249. **14.** 1997. **15.** High-Surface-Area Alumina Ceramics Fabricated by the Decomposition of $Al(OH)_3$ / Z.Y. Deng, T.i Fukasawa, M. Ando, G.J. Zhang, and T. O. Synergy (Japan) // J. Amer. Cer. Soc. V. 84. 3. 2001. **16.** // . 1972.- 2.- . 41 - 49. **17.** Givan, G. V. u.a.: Harten and Brennen hochreiner calciumaluminatgebundener Tabulartoner de Betone // Am. Ceram. Soc. Bull., V. 54 (1975) 8, S. 710 - 713. **18.** DIDIER / - DIDIER Werke. 1996.

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