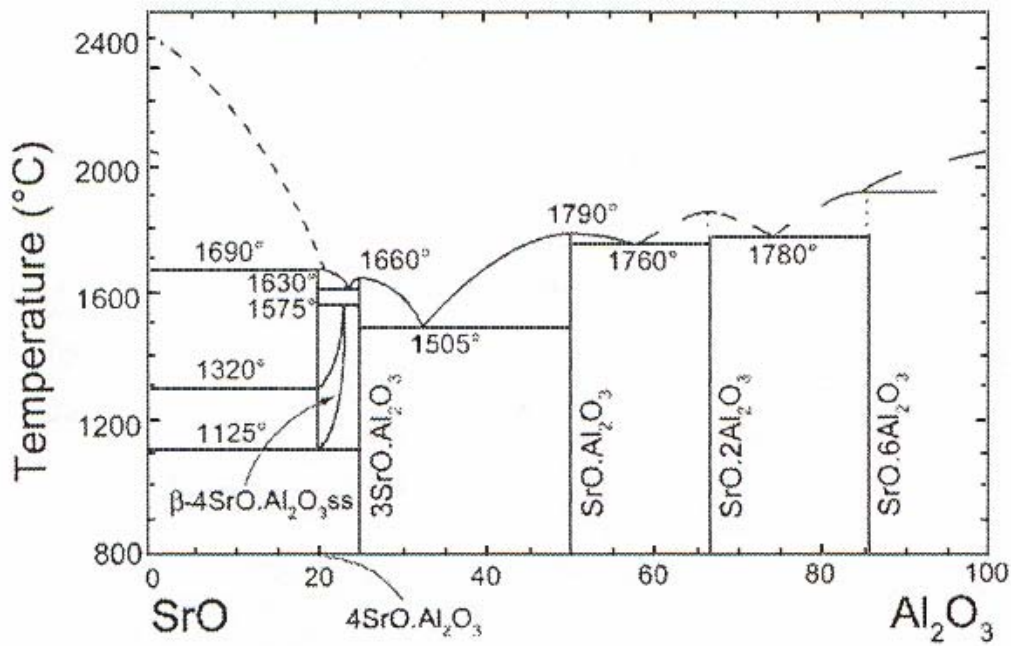


Strontiumaluminat – Strukturdaten

Sr:Al	1:12	3:32	1:4	4:14	2:6	1:2	7:12	12:14	5:4	3:2	10:6	5:2	4:2
SrO:Al₂O₃	1:6	3:16	1:2	4:7	2:3	1:1	7:6	12:7	5:2	3:1	10:3	5:1	4:1

Verbindung JCPDS	Raum- gruppe	Gitterpara- meter [nm]	Sr- Plätze	Sr- CN	Literatur
SrAl ₁₂ O ₁₉ 26-976 (43155)	<i>P6₃/mmc</i> Z=2	Hexagonal <i>a</i> = <i>b</i> = 0.5566, <i>c</i> = 2.20018 γ = 120°	1	12	Kimura K. et al, J. Solid State Chem. 87.(1990) 186-194 Sandiumenge F. et al., J. Am. Ceram. Soc. 72 (1989) 2180-2182,
Sr ₃ Al ₃₂ O ₅₁ 2-964 44-24					
SrAl ₄ O ₇ 25-1208	<i>C12/c1</i> Z=4	Monoklin <i>a</i> = 1.30389, <i>b</i> = 0.90113, <i>c</i> = 0.55358 β = 106.12°	1	7	Lindop A.J. et al., Acta Crystallogr. B (1972) 28, 2625-2626
β -SrAl ₄ O ₇ 25-1289	<i>Cmme</i> Z=4	Orthorhombisch <i>a</i> = 0.8085, <i>b</i> = 1.1845, <i>c</i> = 0.4407	1	10	Machida K.I. et al., Acta Crystallogr. B (1982) 38, 889-891
Sr ₄ Al ₁₄ O ₂₅ 89-8206 (88527)	<i>Pmma</i> Z=2	Orthorhombisch <i>a</i> = 2.47451, <i>b</i> = 0.84735, <i>c</i> = 0.48808	2	7, 10	Nadezhina T.N, et al., Sov. Phys. Crystallogr. (Engl. Transl.) 21 (1976) 471-473
Sr ₂ Al ₆ O ₁₁	<i>Pnmm</i> Z=4	Orthorhombisch <i>a</i> = 2.1914, <i>b</i> = 0.4884, <i>c</i> = 0.84039	2		Takeda, T. et al., J. Jpn. Soc. Powder Met. 49 (2002) 1128-1133
SrAl ₂ O ₄ 31-1336	<i>P12₁1</i> Z=4	Monoklin <i>a</i> = 0.84422, <i>b</i> = 0.88234, <i>c</i> = 0.51568, β = 93.409°	2	6	Saines P.J., et al, J. Solid State Chem. (2006) 179, 613-622
SrAl ₂ O ₄ , HT 34-379	<i>P6₃</i> Z=6	Hexagonal <i>a</i> = <i>b</i> = 0.8926, <i>c</i> = 0.84985, γ = 120°	3	3, 6	Fukuda K., et al. J. Solid State Chem. 178 (2005) 2709-2714
Sr ₇ Al ₁₂ O ₂₅ (200671)	<i>P3</i> Z=3	Trigonal <i>a</i> = <i>b</i> = 1.791, <i>c</i> = 0.716, γ = 120°	6	1, 7	Nevskii N.N., et al., Sov. Phys. Crystallogr. (Engl. Transl.) (1979) 24, 93-95
Sr ₁₂ Al ₁₄ O ₃₃ 40-25	<i>I43d</i> Z=2	Kubisch <i>a</i> = 1,2325	1		Yamaguchi O., et al., J. Am. Ceram. Soc. 69 (1986) C36-C37

$\text{Sr}_5\text{Al}_4\text{O}_{11}$					
$\text{Sr}_3\text{Al}_2\text{O}_6$ 24-1187 28-1203	$Pa-3$ $Z=24$	Kubisch $a = 1.58556$	6	6, 7, 8, 9	Prodjosantoso A.K. et al., Aust. J. Chem. 53 (2000) 195-202 Walz L. Z. Kristallogr. 213 (1998) 47-51 Chakoumakos B.C. et al., Acta Crystallogr. C 48 (1992) 414-419
$\text{Sr}_{10}\text{Al}_6\text{O}_{19}$ (95536)	$C12/c1,$ $Z=8$	Monoklin $a = 3.45823,$ $b = 0.78460,$ $c = 0.57485$ $\beta = 103.68^\circ$	11	3, 5, 6, 7	Kahlenberg V. Mater. Res. Bull. (2002) 37, 715-726
$\text{Sr}_5\text{Al}_2\text{O}_8$ 10-65					
$\text{Sr}_4\text{Al}_2\text{O}_7$ 28-1204					



SrO- Al_2O_3 diagram, after Massazza.

F. Massazza. Chim. Ind. 41 (1959) 108-115

Sr:Al	1:12	3:32	1:4	4:14	2:6	1:2	7:12	12:14	5:4	3:2	10:6	5:2	4:2
SrO:Al₂O₃	1:6	3:16	1:2	4:7	2:3	1:1	7:6	12:7	5:2	3:1	10:3	5:1	4:1