

ALKALI RESISTANT BRICKS

PRODUCT	Al ₂ O ₃ % (Min)	Fe ₂ O ₃ % (Max.)	SiC % (Min)	B.D. Gm/cc (Min)	A.P. % (Max)	CCS Kg/cm ² (Min)	RUL Ta°C (Min)	PCE (ORTON CONE)	Thermal Conductivity (w/mk)	
									at 300°C	at 1000°C
ALRESIST 30	30	1.50	-	2.05	15	500	1250	28	1.10	1.30
ALRESIST 35	35	1.50	-	2.15	15	500	1300	30	1.10	1.30
ALRESIST 40	40	2.00	-	2.20	18	500	1400	32	1.20	1.40
ALRESIST 50	50	2.50	-	2.35	18	500	1450	32	1.30	1.60
ALRESIST 60	60	2.50	-	2.45	18	600	1450	33	1.50	1.85
ALSIC 5	45	1.50	5.00	2.30	15	600	1450	33	1.30	1.50
ALSIC 15	48	1.00	15.00	2.50	15	500	1500	36	2.40	2.80
ALSIC 25	50	1.00	25.00	2.55	15	500	1550	37	3.00	3.40

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CONVENTIONAL CASTABLES

PRODUCT	Max Service Temp. (°C)	Max Grain Size (mm)	% Water Req'd. for Casting	BD (gm/cc) Min. Dried at 100°C	PCE (ORTON CONE)	CCS(kg/cm ²)(Min)			PLC % (Max)		Chemical Analysis	
						After Drying at 110°C	After firing to 1000°C	After Firing at 1450°C	at 1450°C /2 Hrs	At 1600° C / 2 Hrs.	Al ₂ O ₃ % (Min)	Fe ₂ O ₃ % (Max.)
SKG CAST-45FN	1350	5	11 - 12	2.10	20	250	230	400	+/-1.0	-	45	4.0
SKG CAST-50WC	1450	5	10 - 11	2.15	23	250	230	400	+/-1.0	-	50	1.5
SKG CAST-50WC (SPL)	1500	5	10 - 11	2.15	26	300	250	450	+/-1.0	-	50	1.3
SKG CAST-60WK	1550	5	10 - 11	2.30	29	300	270	450	+/-1.0	-	60	1.5
SKG CAST-60WK (SPL)	1600	5	10 - 11	2.30	31	400	300	500	+/-1.0	-	60	1.0
SKG CAST-70FS	1500	5	10 - 11	2.50	28	350	300	500	+/-1.0	-	70	5.0
SKG CAST-80WM	1600	5	8 - 9	2.60	34	550	300	500	-	+/-1.0	80	2.5
SKG CAST-90WA	1700	5	8 - 9	2.80	36	600	300	500	-	+/-1.0	90	1.0
SKG CAST-95HC	1750	5	8 - 9	2.85	37	600	300	500	-	+/-1.0	95	0.8

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INSULATING CASTABLE

PRODUCT	Max Service Temp. (°C)	Max Grain Size (mm)	% Water reqd. for casting	Max. Dry Density kg/m after drying at 110°C	CCS kg/cm ² (Min)			PCE (ORTON CONE)	PCL % (Max)	Thermal Conductivity kcal/m/hr/°C (Max)	Chemical
					After Drying at 100°C	After Heating at 800°C	After Heating at 1100°C		After Heating at 800°C / 3 Hrs	At 500° C	Al ₂ O ₃ % (Min)
INSULCAST 7	1100	6	60 - 65	800	12	4	6	12	+/- 0.80	0.18	30
INSULCAST 9	1200	6	38 - 43	1000	15	6	10	14	+/- 0.60	0.28	30
INSULCAST 11	1300	6	29 - 34	1200	35	25	25	14	+/- 0.20	0.31	32
INSULCAST 13	1350	6	26 - 31	1400	50	30	30	14	+/- 0.20	0.33	36

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LOW CEMENT CASTABLES

PRODUCT	Max Service Temp. (°C)	Max Grain Size (mm)	% Water Req'd. for Casting	BD (gm/c) Min. Dried at 100°C)	PCE (ORTON CONE)	CCS (kg/cm ²) (Min)			PLC % Max At 1500°C / 2 Hrs.	Chemical Analysis		
						After Drying at 110°C	After firing to 800°C	After Firing at 1200°C		Al ₂ O ₃ % (Min)	Fe ₂ O ₃ % (Max.)	CaO % (Max)
SKG LC-45	1550	6	6-7	2.30	31	700	800	900	+/-1.0	45	1.0	2.5
SKG LC-50	1550	6	5-6	2.35	32	700	800	900	+/-1.0	50	1.5	2.5
SKG LC-60	1600	6	5-6	2.50	35	750	820	950	+/-1.0	60	1.5	2.0
SKG LC-70	1650	6	5-6	2.60	35	750	820	950	+/-0.8	70	1.5	2.5
SKG LC-80	1700	6	5-6	2.70	36	800	900	1000	+/-0.6	80	1.8	2.5
SKG LC-90	1750	6	4-5	2.85	36	950	1000	1100	+/-0.6	90	1.0	2.0
SKG LC-95	1800	6	4-5	3.00	37	1000	1050	1100	+/-0.6	35	0.3	2.0
SKG LC-SC 30	1500	6	5-7	2.40	26	600	-	-	TC, at 1200°C=4.5 w/mk	30	SiC 30%	
SKG LC-SC 50	1500	6	5-7	2.50	26	600	-	-	TC, at 1200°C=4.5 w/mk	20	SiC 50%	

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						After Drying at 110°C	After firing to 1000°C		Al ₂ O ₃ % (Min)	Fe ₂ O ₃ % (Max.)	CaO % (Max)
SKG - LC -45 AR	1400	8	6	2.40	19	500	700	+/-0.2	45	1.5	2.0
SKG - LC -60 AR	1500	8	6	2.65	29	550	700	+/-0.2	60	1.5	2.0

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GUNNING CASTABLES

PRODUCT	Max Service Temp. (°C)	Max Grain Size (mm)	BD (gm/cc) Min. Dried at 100°C)	CCS (kg/cm ²) (Min)		PLC % MAX	Chemical Analysis		
				110°C	1000°C		Al ₂ O ₃ % (Min)	Fe ₂ O ₃ % (Max.)	CaO % (Max)
SKG-GM AL-40	1300	5	2.00	300	200	+/-0.5 AT 1300°C/2 Hrs	40	2.0	5.0
SKG-GM AL-50	1350	5	2.10	350	200	+/-0.5 AT 1350°C/2 Hrs	50	2.0	5.0
SKG-GM AL-70	1500	5	2.50	500	300	+/-0.5 AT 1500°C/2 Hrs	70	2.5	5.0

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INSULATION MATERIAL

PRODUCT	Al ₂ O ₃	SiO ₂	CaO	Fe ₂ O ₃	B.D.	LOI	FLEXURAL	THERMAL CONDUCTIVITY	TEMPERATURE	THICKNESS
	%	%	%	%	Kg/m ³		STRENGTH, Mpa	AT 550° C, w/m°K	°C	mm
INSULATION BLOCK										
SKG THERM 650	3.0-4.2	38-42	32-36	0.9	190	< 17.0	0.85-0.9	0.055	650	15-100
SKG THERM 850	3.2-4.5	41-45	34-38	0.7	230	< 15.0	0.87-0.9	0.058	850	15-100
SKG THERM 1000	3.2-4.5	42-46	34-38	0.7	250	< 14.0	0.87-0.9	0.062	1000	15-100
SKG THERM 1100	3.5-4.5	44-48	35-38	0.7	250-280	< 11.0	0.87-0.9	0.07	1100	15-100
CERAMIC BLANKET										
SKG CERA - Z	52-55	45		0.2	64,96,128 & 160			0.10 - 0.20	1430	6,13,19,25,38,50
SKG CERA - S	47-49	41		0.2	64,96,128 & 160			0.11 - 0.18	1260	6,13,19,25,38,50
CERAMIC PAPER										
SKG PAPER - Z	52-55	44		0.2	190 - 220			0.12	1430	1 TO 6
SKG PAPER - S	44-47	51		0.2	190 - 220			0.13	1260	1 TO 6
CERAMIC BOARD										
SKG CERABOARD - Z	52-55	49		0.2	320 - 480			0.11	1430	06 TO 80
SKG CERABOARD - S	46-49	51		0.2	320 - 480			0.12	1260	06 TO 80
CERAMIC BULK FIBER										
SKG LITEFIBRE - Z	52-55	49		0.4	80-200			0.12	1430	
SKG LITEFIBRE - S	46-49	51		0.4	80-200			0.13	1260	

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