



TWIN CHAMBER FURNACE

1 Hearth, melting chamber

- ALKON® CAST HYMOR 80 AL: reference solution
- ALKON® CAST BL 80 B3: for maximum abrasion resistance
- ALKON® CAST LM 68: cost effective solution

2 Bath, wall, spout, holding chamber

- ALKON® CAST 204 or ALKON® CAST LB 85 ALKON® SOL CAST HT: reference solutions
- ALKON® CAST HYMOR 80 AL: for extra resistance to strong alloys & flux
- ALKON® CAST MM 60: in less strong environment

3 Wall, melting chamber

- ALKON® CAST HYMOR 80 AL: reference solution
- ALKON® CAST MT 90: for high temperature flame impacts

4 Sill

- ALKON® CHEM PB 85: reference with high strength after thermal cycling
- ALKON® CAST BL 80 B3: vs heavy mechanical impact
- ALKON® CAST HYMOR 80 AL

5 Shaft

- CALDE® CAST MF 50: reference solution
- ALKON® CAST MF 50: attack with liq. aluminum
- ALKON® CAST BL 80 B3: heavy mechanical impact

Transition Vault

- ALKON® CAST BL 80 B3: reference solution
- ALKON® CHEM PB 85: chemical attack
- ALKON® CAST LB 57 Z20

6 Burner block

- CALDE® CAST LM 70: reference solution
- ALKON® CAST HYMOR 80 AL: compromise between heat and attack of liq. aluminum

7 Lintel and door jambs

- CALDE® CAST LX 58: enforced with steel fibres: reference solution
- CALDE® CAST MF 50: cost effective solution
- CALDE® WIRE MIX: in precast shapes for great durability against mechanical abuse and thermal shocks, replacing metal protective plates.

8 Roof, holding chamber

- ALKON® CAST MF 50: enforced with steel fibres: reference solution
- CALDE® CAST MW STRONG LITE
- CALDE® GUN STRONG MIX

9 Bottom backlayer

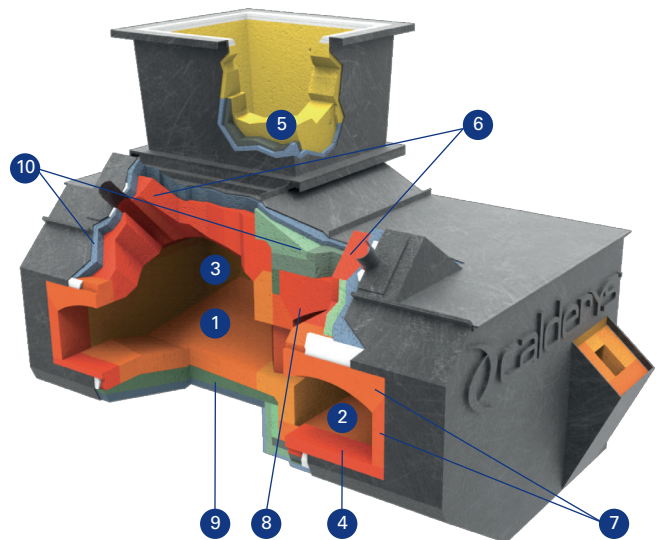
- ALKON® CAST F 35 C/G: reference solution
- CALDE® CAST F 32 C/G: reference solution

10 Roof backlayer

- CALDE® CAST & GUN MW STRONG MIX: references
- CALDE® CAST XL 116 C/G: insulating layer

11 Door & Exhaust

- CALDE® / ALKON® CAST MF 50: reference solution
- ALKON® CAST F 35 C/G: for lighter solution
- CALDE® CAST/GUN MW STRONG MIX



Cold Repairs

- ALKON® SOL CAST B 85: fast repair reference solution in sill, ramps and hearth
- ALKON® CHEM PB 85: fast repair reference in belly-band for extra resistance to dross & corrosion
- ALKON® GUN P and ALKON® GUN C 75: fast repair solutions in all walls and roof.

Specific patch or plastic solutions for small/finer repairs are also available.

Hot Repairs

- ALKON® GUN C 75: emergency hot repair solution in bath area
- ALKON® GUN F 48 B: emergency hot repair solution in upper area
- CALDE® GUN MM 55 S5: especially shaft



REFRACTORY SPECIFICATIONS

Selection of products shall be done in accordance with furnace process conditions. Calderys invites you to fill in a dedicated questionnaire to confirm product selection regarding temperature level, cycling, alloys, salt/flux usage, and charging/skimming practices.

Selection of product/design shall be done in accordance with shut-down duration requirements; solutions can differ based on the importance of speed. Tailor-made solutions such as pumping/gunning, easy dry-out materials, up to full precast can be supplied to lower cost of ownership when production loss per day is of high value.

The performance of the final solution is sensitive to the installation quality, from the equipment performance to the manpower skills/ respect of refractory placement procedures. Calderys invites customers to engage its supervision of the installation work, up to full turnkey solutions to control the overall quality of the project: shutdown schedule, installation, dry-out and furnace commissioning.

Please ensure any product selection and/or design is validated by your Calderys sales representative.

Product name	Main component	Binding System	Max. Recomm. temp.(°C)	Density (g/cm³)	Ease of Dry Out	Chemical analysis (avg %)			
						Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	SiC
ALKON® CAST HYMOR 80 AL	Corundum	Hydraulic	1420	3.13		84.0	3.1	0.1	
ALKON® CAST BL 80 B3	Bauxite	Hydraulic	1400	3.08	(-)	83.0	7.7	0.8	
ALKON® CAST LM 68	High alumina raw materials	Hydraulic	1400	2.6		68.0	25	0.6	
ALKON® CAST 204	Bauxite	Hydraulic	1200	2.8	(-)	81.0	8.8	0.7	2.9
ALKON® CAST LB 85 ALKON® SOL CAST HT	Bauxite	Hydraulic	1300	2.9		84.0	8	0.7	
ALKON® CAST MM 60	High alumina raw materials	Hydraulic	1450	2.5		61.0	26	0.9	
ALKON® CAST MT 90	Tabular alumina	Hydraulic	1550	3.03		90.0	0.2	0.1	
ALKON® CAST BL 80 B3	Bauxite	Hydraulic	1400	3.08		83.0	7.7	0.8	
CALDE® CAST LM 70	Andalusite, High alumina raw materials	Hydraulic	1650	2.53		70.0	26	0.7	
CALDE® CAST F 32 C/G	Chamotte	Hydraulic	1280	1.85		35.0	51.0	2.7	
CALDE® CAST MF 50	Chamotte	Hydraulic	1480	2.32		52.0	42	0.7	
ALKON® CAST MF 50	Chamotte	Hydraulic	1480	2.35		50.0	42	0.8	
ALKON® CHEM PB 85	Bauxite	Chemical Inorganic	1400	2.93	+	85.0	2.4	0.8	
ALKON® CAST LB 57 Z20	Bauxite, Zircon	Hydraulic	1400	3.11		57.0	18		
CALDE® CAST LX 58	Andalusite	Hydraulic	1650	2.5		57.0	38	1.1	
CALDE® CAST MW STRONG LITE	Lightweight chamotte	Hydraulic	1320	1.58		40.0	38	5.5	
CALDE® GUN STRONG MIX	Chamotte	Hydraulic	1320	2.05		36.5	46	3.9	
CALDE® CAST F 35 C/G	Chamotte	Hydraulic	1280	2		36.0	49	3	
CALDE® CAST F 32 C/G	Chamotte	Hydraulic	1280	1.85		35.0	51	2.7	
CALDE® CAST XL 116 C/G	Lightweight chamotte, Vermiculite	Hydraulic	1160	0.84		28.5	30	10.3	
ALKON® GUN P	Bauxite	Chemical Inorganic	1600	2.63	+	83.0	8.2	0.9	
ALKON® GUN C 75	Corundum	Hydraulic	1420	2.73	++	78.5	1.8	0.2	
ALKON® GUN F 48 B	Chamotte	Hydraulic	1400	2.12		48.0	30	0.7	
CALDE® GUN MM 55 S5	High alumina raw materials	Hydraulic	1500	2.42		58.0	30	0.9	4.0
ALKON® SOL CAST B 85	Bauxite	Mineral Reaction	1200	2.95	++	85.0	8.4	0.5	2.8

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