

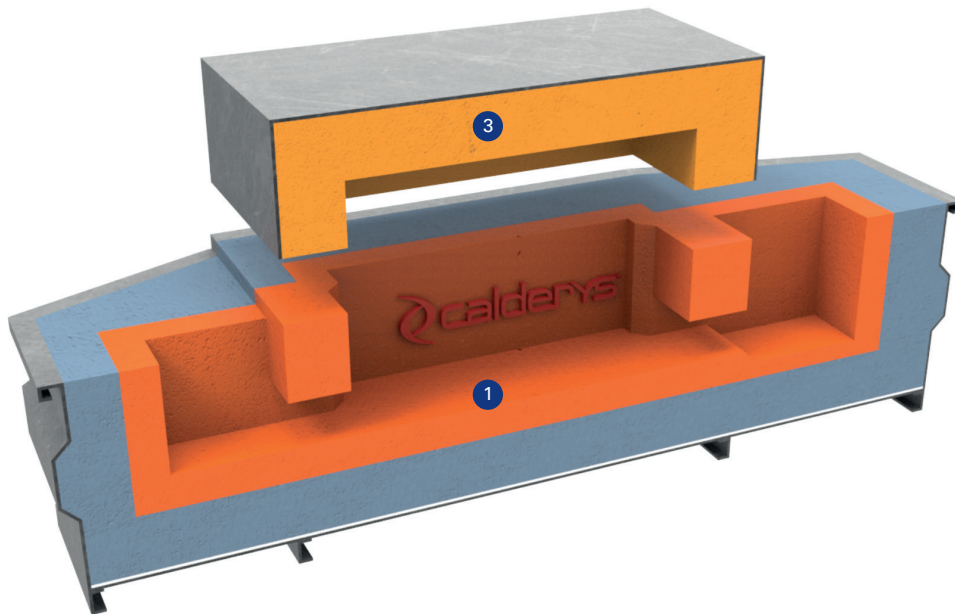


DOSING FURNACE

1 Hotface & Dams

- ALKON® CAST 204 and ALKON® CAST LB 85 ALKON® SOL CAST HT: reference solutions
- ALKON® CAST HYMOR 80 AL: for extra resistance to dross, strong alloys & flux
- ALKON® CHEM PB 85: solution for extra resistance and quick dry-out combination
- ALKON® FLOW LB 85: self-flowing solution to cast in one piece in thin walls
- ALKON® CAST MT 90: for pure aluminium

Precast solution available.



2 Insulation

Aluminium infiltration barriers.

Layers of insulating bricks and boards to minimize thermal loss and to prevent hydrogen pick-up.

Shell temperature as low as 50°C can be reached.

- ALKON® DRY SF 40: backlayer dry-vibrating mix in walls if precast solution is used

3 Roof

- ALKON® CAST MF 40 CFM: semi-insulating but dense solution if heated by electrical elements
- ALKON® CAST MM 60: upgrade solution if there is a high risk of corundum growth by electrical radiant tubes
- ALKON® CAST MW 14 C/G: extra insulation solution

In-house Relining Solution

- In house relining turnkey solutions available from treatment box pick-up, demolition of old lining, relining, dry-out and pre-heated delivery for quick reconnection in customer process. Work can include some mechanical, painting and sensor connection

Cold Repairs

- ALKON® CHEM PB 85 and ALKON® CHEM STIX PB 85: casting / patching 2 component quick setting solution for quick and durable repairs showing mechanical strength and aluminium alloy high corrosion resistance
- ALKON® STIX C 75: versatile solution by hand patching
- ALKON® PATCH PT 85 U: solution for thin repairs



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. From wet ramming & cast in-situ, up to dry ramming and large 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/cm ³)	Ease of Dry Out	Chemical analysis (avg %)			
						Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	SiC
ALKON® CAST 204	Bauxite	Hydraulic	1200	2.8	(-)	81	8.8	0.7	2.9
ALKON® CAST LB 85 ALKON® SOL CAST HT	Bauxite	Hydraulic	1300	2.9		84	8	0.7	
ALKON® CAST HYMOR 80 AL	Corundum	Hydraulic	1420	3.13		84	3.1	0.1	
ALKON® CHEM PB 85	Bauxite	Chemical Inorganic	1400	2.93	(+)	85	2.4	0.8	
ALKON® FLOW LB 85	Bauxite	Hydraulic	1200	2.88		84.5	8.5	1	
ALKON® CAST MT 90	Tabular alumina	Hydraulic	1550	3.03		90	0.2	0.1	
ALKON® DRY SF 40	Chamotte	Ceramic	1600	2.46		40	52.5	1.4	
ALKON® CAST MF 40 CFM	Cordierite	Hydraulic	1200	2.02		36	49	1.5	
ALKON® CAST MM 60	High alumina raw materials	Hydraulic	1450	2.5		61	26	0.9	
ALKON® CAST MW 14 C/G	Lightweight chamotte	Hydraulic	1200	1.53		40	37	3.0	
ALKON® CHEM STIX PB 85	Bauxite	Chemical Inorganic	1400	2.7	(+)	81	1.4	0.5	
ALKON® STIX C 75	Corundum	Hydraulic	1420	2.41	(+)	76	1.5	0.1	
ALKON® PATCH PT 85 U	Tabular Alumina	Chemical	1200	0.92		85		0.1	

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