

The background image shows an industrial electric arc furnace in operation. A bright, intense light emanates from the furnace's interior, where molten metal is being processed. The furnace is a large, cylindrical structure with various pipes and mechanical components visible. A red circular graphic is superimposed over the left and bottom portions of the image, creating a modern, stylized look.

ELECTRIC **ARC FURNACES**

 **calderys**



CALDERYS

150+

years of combined experience

6,500+

people and contractors in over 30 countries

50

plants in the 5 continents

One of the world's largest supplier in high temperature solutions

Enlarged portfolio of solutions from refractory bricks and monolithics to steel casting fluxes and green molding sand solutions

Calderys is a leading global provider for industries operating in high temperature conditions. We specialize in thermal protection for industrial equipment with a wide range of refractory products, and advanced solutions to enhance steel casting, metallurgical fluxes and molding processes.

In 2023, Calderys joined forces with HarbisonWalker International, the largest supplier of refractory products and services in the United States.

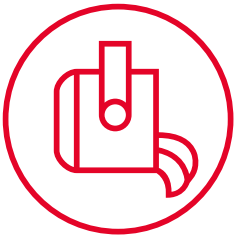
Together, we form a high-growth, customer-centric provider with a comprehensive offering and a truly global reach. Drawing on over 150 years of combined experience, we support our customers in their energy transition needs. We count more than 6,500 people and contractors, in over 30 countries.

Our international network of experts ensures an end-to-end offer with tailored services.

We are constantly developing innovative products and techniques in order to **optimize costs and performance**, combining world-class Research & Development and technical experts, as well as responsive supply chain and sales departments.

Our global structure allows us to design the customized solutions of today while **anticipating the industries' needs of tomorrow**. Calderys pays particular attention to the industry's impact on the environment and has a sustainability program articulated around three pillars: supporting our customers in their energy transition needs, improving our environmental footprint and being committed to people and local communities.

Health and safety is an integral part of how we do business. The same attention to detail that helps us provide personalized products and solutions is also applied to our rigorous health and safety criteria. Our activities require the highest level of professionalism to carry out our projects. To guarantee the strictest standards, Calderys employs a number of safety, occupational health and environmental protocols across all its entities worldwide — applicable to both our own employees as well as subcontractors and temporary workers.



OUR VALUE TO THE IRON & STEEL INDUSTRY

As a prominent ally to the Iron & Steel industry, Caldeyrs has steadily enlarged its service solutions from ironmaking, liquid steel processing, continuous casting, reheat furnaces and other equipments. With innovation and sustainability as fundamental parts of our DNA, we have pioneered a tremendous number of new applications, such as pitch-free tap-hole clay for blast furnaces and our cutting-edge mold fluxes. Through the combination of HarbisonWalker International and Caldeyrs' expertise, the company is offering complementary product portfolios and total care services, bringing a vast array of solutions to support customer needs in all refractory and casting fluxes applications.

What we bring to the Iron & Steel industry

- Close watch over ESG topics, such as product CO₂ footprint calculation, proposing a large range of refractory products resistant to H₂; as well as Environment, Health and Safety (EHS) concerns like the reduction of respirable crystalline silica (RCS) and Phenol (PaH).
- Complete portfolio of customized solutions from ironmaking, liquid steel processing, continuous casting, reheat furnaces and other equipment.
- Full set of refractory services: from engineering & design, installation, project management, dry-out & commissioning, to maintenance and refractory assessments.
- Process analysis including fluid flow and numerical simulations.
- Technical support from trial to after sales.



OUR VALUES FOR THE STEELMAKING INDUSTRY

Calderys has a full product portfolio for all refractory needs including monolithic refractories and a range of bricks.



A world leader in Refractory Solutions, Calderys has the complete product and service portfolio for all applications. The wide ranging technology of Calderys ensures that the clients' needs are exceeded.

For electric arc furnace, Calderys provides specific solutions for both:

- DC Furnace
- AC Furnace

Calderys is considered a reference supplier in the steel industry, offering value-added solutions based on tailor-made designs and engineering to provide refractory linings for optimal performance.

Our comprehensive technology and services are a result of a world-class innovation network, local expertise from over 30 locations around the globe, and over 100 years of experience in the refractory business.

Alongside the products themselves, Calderys provides a complete range of services:

- Design
- Product selection
- Thermal calculations
- FEM calculations
- Installation
- Labour & machinery
- Supervision
- Repair service support
- Full refractory project management





CALDE® BRAND

THE COMPLETE REFRACTORY SOLUTION FOR ELECTRIC ARC FURNACES

Calderys is committed to providing complete refractory solutions for the electric arc furnace (EAF), tailored to specific client needs for all production units and production processes.



As a global partner to the steel industry, Calderys offers a complete range of high grade refractories and related services that ensure the most comprehensive lining solutions for the EAF:

- **In-depth range of shaped and unshaped refractory products**
including basic and non-basic mixes, fired and carbon-bonded bricks, ready-shapes, slide gate and isostatically pressed components.
- **Complete service and repair concepts**
including dedicated machinery, repair systems, and supervision for the application of high value refractory products for the EAF.
- **Respected and long-standing partner to clients within the steel industry**
providing decades of collaborative partnerships that present the latest technologies to our customer base.
- **Global sales and service network**
ensuring the best and most reliable service in the industry.
- **Advanced research and development and strategic partnerships**
providing package and system solutions to meet all variations of customer expectations.

In focus, the **CALDE® BRICK range** is tailored for the working lining and the safety lining of the furnace, providing both fired magnesia and carbon bonded technologies to withstand even the most demanding of applications.

Calderys Monolithic Refractory Solutions make use of high grade raw materials that provide finished products meeting key requirements of ease of installation and target performance, optimising technical and commercial parameters. Calderys ready-shapes and cast-in-situ technologies for tapping, spout and delta roof offer robust, reliable and long-lasting solutions for these high demand areas.

Calderys continues to evolve and improve its technical offering, ensuring that the ever-changing demands of clients and applications can be met through the supply of tailor-made solutions and services to reach the **optimum technical and commercial considerations**.

EAF Lining - MgO-C Bricks

Aera		Product recommendations	Chemical analysis (%)				Resi- dual Carbon %	Bulk Density g/cm3	Appa- rent Poro- sity %	CCS MPa	Anti Oxi- dants
			MgO	CaO	Fe ₂ O ₃	SiO ₂					
Lower Wall	Cost-Effective	Calde® Brick MC R 112-N	94.5	2.3	0.8	2.3	6	2.94	8.3	60	No
	Standard Grade	Calde® Brick MC R 212-N	97	0.9	0.7	0.9	6	2.99	6	60	No
	Improved Grade	Calde® Brick MC R 552-N	96.5	-	0.8	0.8	6	3.02	6.5	60	No
Upper Wall	Standard Grade	Calde® Brick MC R 214-N	97	0.9	0.7	0.9	12	2.92	4.2	45	No
	Improved Grade	Calde® Brick MC R 554-N	96.5	-	0.8	0.8	12	2.98	5.5	45	No
Slag Line	Cost-Effective	Calde® Brick MC R 554-N	96.5	-	0.8	0.8	12	2.98	5.5	45	No
	Standard Grade	Calde® Brick MC R 604-N	97	1.1	0.65	0.55	12	3.04	3.7	45	No
		Calde® Brick MC R 606-N	97	1.1	0.65	0.55	15	2.99	3.3	35	Yes
	Improved Grade	Calde® Brick MC R 706-A	97.5	1	0.6	0.5	15	2.99	3.1	35	Yes
Hot Spot	Cost-Effective	Calde® Brick MC R 554-N	96.5	-	0.8	0.8	12	2.98	5.5	45	No
	Standard Grade	Calde® Brick MC R 556-N	96.5	-	0.8	0.8	15	2.92	5.5	35	No
		Calde® Brick MC R 606-N	97	1.1	0.65	0.55	15	2.99	3.3	35	No
	Improved Grade	Calde® Brick MC R 606-A	97	1.1	0.65	0.55	15	2.98	2.7	35	Yes
		Calde® Brick MC R 706-A	97.5	1	0.6	0.5	15	2.99	3.1	35	Yes
Door Area	Standard Grade	Calde® Brick MC R 604-B	97	1.1	0.65	0.55	12	3.04	3.4	45	Yes
	Improved Grade	Calde® Brick MC R 704-E	97.5	1	0.6	0.5	12	3.01	4.1	45	Yes

EAF Lining - Fired Bricks

Aera		Product recommendations	Chemical analysis (%)				Resi- dual Carbon %	Bulk Density g/cm3	Appa- rent Poro- sity %	CCS MPa	Anti Oxi- dants
			MgO	CaO	Fe ₂ O ₃	SiO ₂					
Lower Wall, Upper Wall	Standard Grade	Calde® Mag Brick MD 60DB	60	-	-	2.0	-	3.08	16	40	No
Slag Line, Hot Spot	Standard Grade	Calde® Mag Brick MD 60 DB	60	-	-	2.0	-	3.08	16	40	No
	Improved Grade	Calde® Mag Brick MD 61 SRB	60	0.6	11.7	1.5	7.0	3.15	16	45	No
Permanent Lining	Standard Grade	Calde® Mag Brick FM 92	92	3.0	2.5	4.5	2.5	2.9	18	50	No
	Improved Grade	Calde® Mag Brick FM 95	95	2.0	1.5	2.5	1.0	2.95	18	50	No

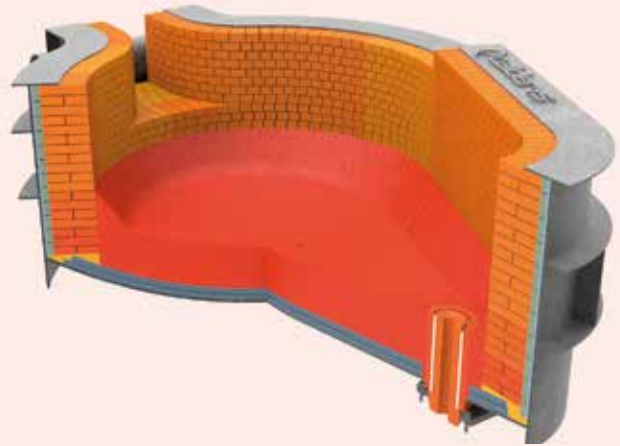
FOCUS EAF BOTTOM / HEARTH

The CALDE® MAG DRY product range is based on Alpine microcrystalline magnesite or synthetic high calcium ferrite magnesite, specifically formulated for best compaction to resist steel and slag penetration.

Dry-Vibratable EAF hearth installations provide numerous advantages:

- Low initial cost
- No-dryout or preheat needed
- Easy to repair and re-contour
- Fast installation
- Forms a monolithic surface 'in situ' to slow metal penetration

The CALDE® MAG DRY product range performs particularly well in the EAF hearth.



EAF HEARTH PRODUCTS

Offering tailor-made solutions that meet the commercial and technical requirements for optimal performance.

V R CALDE® MAG DRY K 75

V R CALDE® MAG DRY K 70 G8

V R CALDE® MAG DRY K 56

V R CALDE® MAG DRY K 75 G6

V R CALDE® MAG DRY K 80 G8

V R CALDE® MAG DRY K 85

V R CALDE® MAG DRY K 67 G6

V R CALDE® MAG DRY K 85 G8

V R CALDE® MAG DRY K 67 G8

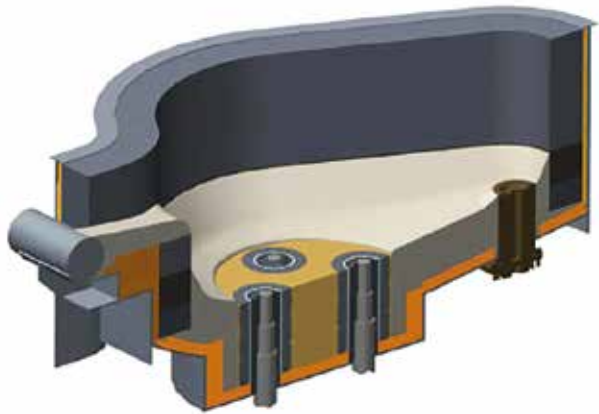
FOCUS CALDE® MAG DRY PRODUCTS IN A DRI AC ELECTRIC ARC FURNACE

Mini-mills melting direct reduced iron (DRI) often experience an extremely aggressive environment in the EAF, specifically in the hearth of the furnace.

For this application, **Calderys recommends CALDE® MAG DRY K 75 G6 and CALDE® MAG DRY K 67 G8 series Hearth Ramming**. The physical and chemical properties of these products promote fast and complete sintering, reducing the potential for erosion and chemical attack. With these products, the sintering process is volume stable thus eliminating cracking and steel infiltration.

CALDE® MAG DRY products have proven their effectiveness in AC EAF mini-mills melting DRI, showing significant savings in refractory consumption of up to 20% compared to competitors' products.

EAFF WITH BILLET ANODES



DC EAF PRODUCTS

Hearth Anode Zone

V R CALDE® MAG DRY K 56

Anode Outer Sleeve

CALDE® MAG BRICK MD 58 DB

Hearth Surrounding Wall

CALDE® MAG BRICK FM 97

Anode Sleeve Brick

CALDE® MAG BRICK MD 58 SRB

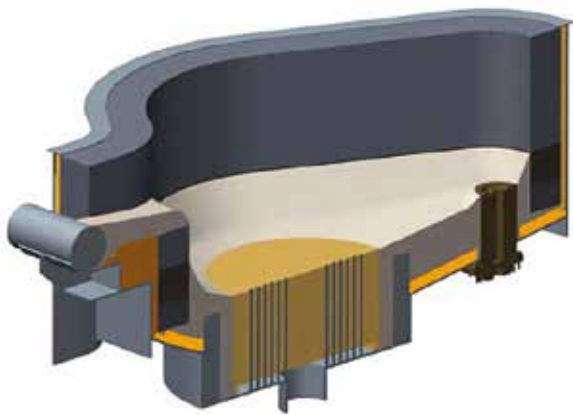
Hearth - Non Anode Zone (Optional)

V R CALDE® MAG DRY K 75 G6

V R CALDE® MAG DRY K 85 G6

V R CALDE® MAG DRY K 67 G6

EAFF WITH ELECTRODE PINS



R Rammed

V Vibrated

T Trowelling

EAFF WITH CONDUCTIVE HEARTH

Conductive Hearth Brick

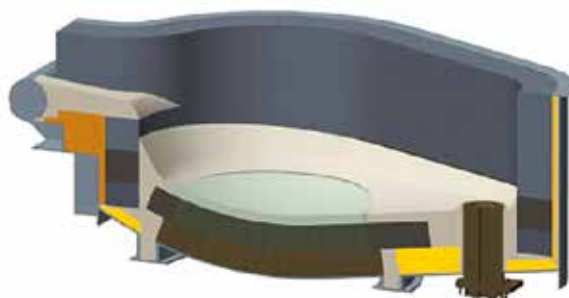
CALDE® BRICK MC R 604-N S PI

Conductive Hearth Mortar

T CALDE® TROWEL G 100

Conductive Mix Installation and Hot/Cold Repair

R CALDE® MAG RAM R 96 G



EAF Lining - Bricks For DC Lining Concept

Area	Product recommendations	Chemical analysis (%)				Residual Carbon %	Bulk Density g/cm ³	Apparent Porosity %	CCS MPa	Anti Oxidants
		MgO	CaO	Fe ₂ O ₃	SiO ₂					
Hearth Surrounding Wall	CALDE® MAG BRICK FM 97	96	2.0	1.5	1.5	-	3.05	17	40	No
Conductive Hearth Brick	CALDE® BRICK MCR 604-N S PI	97	1.1	0.7	0.6	14	3.34	2	60	No
Anode Sleeve Brick	CALDE® MAG BRICK MD 58 SRB	58	-	-	1.5	-	3.15	16	45	No
Anode Outer Sleeve	CALDE® MAG BRICK MD 58 D8	58	-	-	2.0	-	3.10	16	40	No

FOCUS DIRECT-CURRENT ELECTRIC ARC FURNACE

DC furnaces are gradually growing in popularity where plants are either being upgraded or new plants are being built.

A noticeable feature of this kind of furnace is the extra thick hearth safety lining. Originally these furnaces had full bricked hearths, including complicated & very expensive brick shapes in between the anode pins in the bottom. Calderys dry rammed hearth materials for these DC EAF designs, for example, CALDE® MAG DRY K 56, are lower in Fe₂O₃ and of a finer grain to fit in and around the anode pins.

A typical feature of the DC EAF is that there are no specific hot spots in the sidewalls resulting from the electrodes. Depending on the use of sidewall burners, it is possible that DC furnaces can employ one magnesia carbon quality for the entire working lining side wall.

ADDITIONAL MIX PRODUCTS

Backfill

V R CALDE® MAG DRY K 78 G2

EBT Filling Sand

SF CALDE® DRY SM 50

Ramming Mix

Standard Grade

V R CALDE® MAG PATCH P 80

Improved Grade

V R CALDE® MAG DRY K 95

G Gunned

R Rammed

Hot Hot Installation

RsV Ready Shaped / Vibrating

SC Spraycast

SF Self-Flow

V Vibrated

T Trowelling

Mortar

Standard Grade

G T CALDE® MAG COAT S 80

Improved Grade

T CALDE® MAG COAT K 95

CALDERYS ACCESSORIES FROM EAF

SPOUT / LAUNDER



Ramming / Casting

V R CALDE® MAG CAST G 95

Cast on Site

SF CALDE® FLOW LT 95 SP

SF CALDE® FLOW UC 92 D4

Ready Shape

V CALDE® CAST UC 90 D

V CALDE® CAST LT 95 SP G20

FOCUS SPOUT / LAUNDER

The EAF launder tap-hole has to withstand:

- Severe slag corrosion
- Repeat thermal cycling
- Hot erosion by steel and slag

Typical product recommendations to resist these stresses are CALDE® CAST UC 90 D or CALDE® CAST LT 95 SP G20, with optional steel fibre reinforcement for improved spalling resistance.

For more product info, see monolithic refractory technical specification on page 13

ECCENTRIC BOTTOM TAP-HOLE (EBT)



EBT - Surround Block

CALDE® BRICK MC R 212-N

EBT - End Block

CALDE® BRICK ASC 26-62A

CALDE® BRICK MC R 706-E

EBT - Inner Segments

Standard Grade

CALDE® BRICK MC R 706-E

Improved Grade

CALDE® BRICK MC R 706-E S PI

EBT - Filling Sand

SF CALDE® DRY SM 50

EBT - Annular Gap

V R CALDE® MAG CAST G 95

FOCUS EBT

Tap-hole assembly is a key consideration for the EAF. For this application, Calderys recommends:

- High quality 15% MgO-C bricks with antioxidant additions for the sleeve, such as CALDE® BRICK MC R 706-E, or CALDE® BRICK MC R 706-E S PI
- High quality 15% MgO-C bricks with specific metallic additions, such as CALDE® BRICK MC R 706-E, or alumina-SiC-C bricks, such as CALDE® BRICK ASC 26-62A, for the end block.

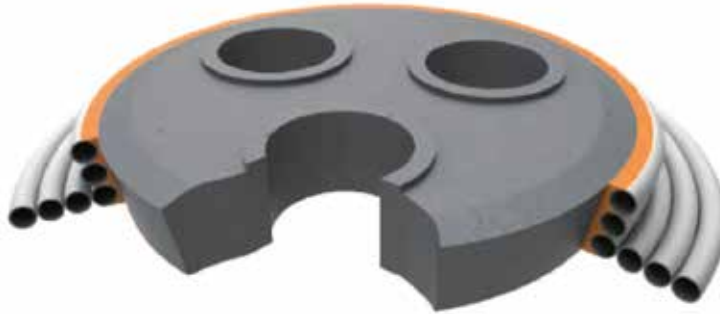
Calderys materials for the EBT exhibit excellent wear characteristics resulting in superb furnace availability.

Aera	Grade	Product recommendations	Chemical analysis (%)					Resi- dual Carbon %	Bulk Density g/cm3	Appa- rent Poro- sity %	CCS MPa	Anti Oxi- dants
			MgO	CaO	Fe ₂ O ₃	SiO ₂	Al ₂ O ₃					
Surround Block	Standard	CALDE® BRICK MC R 212-N	97	0.9	0.7	0.9	-	6	2.99	6	60	No
End Block		CALDE® BRICK ASC 26-62A	2.8	0.8	2.9	-	63.0	15	2.91	4.4	43	Yes
End Block, Inner Segments		CALDE® BRICK MC R 706-E	97.5	1.0	0.6	0.5	-	15	2.98	2.3	35	Yes
Inner Segments	Improved	CALDE® BRICK MC R 706-E S P	97.5	1.0	0.6	0.5	-	17	3.28	2	60	Yes

CALDERYS DELTA ROOF

Ready Shape / Cast on Site*

- RsV** CALDE® CAST UB 80
- RsV** CALDE® CAST UB 85
- RsV** CALDE® CAST UB 85 D3
- RsV** CALDE® CAST UB 86 G8
- RsV** CALDE® CAST UC 80
- RsV** CALDE® CAST UC 90 D



Cast on Site*

- SF** CALDE® FLOW UB 80
- SF** CALDE® FLOW UC 88 D4
- SF** CALDE® FLOW UC 92 D4

Ramming Mix

- R** CALDE® PLAST 85 S

Mortar

- T** CALDE® TROWEL SB 75

*Note: For Cast on Site, it is typical to use the same products as for Ready Shape but in extreme installation conditions Calderys CALDE® FLOW products, with their higher flow properties, can be considered.

FOCUS PRECAST DELTA ROOF FOR EAF

The main wear characteristics of the EAF Delta are:

- High erosion / corrosion from metal and slag - direct from the molten bath mass
- High temperature radiation during melting / treatment of steel
- High temperature impact from the electrodes
- High erosion / corrosion from the effect of the fume offtake
- Direct impact of hot corrosive gases from incorrectly-aligned O₂ burners through the slag door

Calderys has years of expertise in creating refractory solutions to resist these extreme stresses, with one popular option being the Precast Delta Roof, which is tailored to exact client specifications.

The Ready-Shape Departments of Calderys create hundreds of customized EAF roofs every year.

These experts handle everything from initial design to palletization to prepare the finished Delta Roof for transport to the client.

EAF Delta - Brick Roof Options

Area		Product recommendations	Chemical analysis (%)			Bulk Density g/cm ³	Apparent Porosity %	CCS MPa	Anti Oxidants
			Fe ₂ O ₃	SiO ₃	Al ₂ O ₃				
Brick Roof	Standard Grade	CALDE® BRICK B 75	1.7	17.5	76.0	2.68	18	70	No
	Improved Grade	CALDE® BRICK B 85	1.8	11.0	84.0	2.78	19	80	No
	High Slag Resistance*	CALDE® BRICK B 80 D3	1.7	14.0	79.0	2.81	19	90	No

NOTE: For specific zones requiring higher slag resistance, e.g. fume extraction side or around the electrodes.

CALDERYS

MACHINES FOR EFFICIENT INSTALLATION & REPAIR

Effective installation contributes significantly to refractory performance, while maintenance ensures a long lining life, so Calderys supplies the machines clients need for installations and repairs of EAF linings.



CALDE® MACHINE DRY GUN

Rotary dry gunning machine operated with compressed air.
Available in 2 models: permanent or mobile.

FOCUS GUNNING / FETTLING

Clients worldwide have had great success with their EAF repairs using the Calderys CALDE® MAG FRIT (fettling) and CALDE® MAG GUN (gunning) product lines.

These Calderys products are specially tailored for mini-mills to increase furnace availability by safely increasing furnace life and reducing maintenance and partial patch down time.

CALDE® MACHINE EAF

Gunning manipulator for repair of all parts of the EAF: side wall, banks, hearth, as well as protection of the water cooled panels. Operates via gunning "robot" in modes ranging from manual to fully automatic.

Fettling

- F** CALDE® MAG FRIT 80 G5
- F** CALDE® MAG FRIT 80 G8
- F** CALDE® MAG FRIT 40 G5

Gunning Repair

- G** CALDE® MAG GUN G 80
- G** CALDE® MAG GUN GS 82
- G** CALDE® MAG GUN G 89
- G** CALDE® MAG GUN S 65
- G** CALDE® MAG GUN S 80
- F** CALDE® MAG GUN S 89
- F** CALDE® MAG GUN P 82
- F** CALDE® MAG GUN P 89
- F** CALDE® MAG GUN P 83

A SOLUTION WHENEVER YOU NEED US

PRODUCTS NAMES	MAIN COMPONENT	BINDING SYSTEM	MAX RECOMMENDED Temp°C	MAX GRAINS SIZE mm	CHEMICAL ANALYSIS (Averages %)		
					MgO	CaO	SiO ₂
CALDE® CAST LT 95 SP G20	Tabular Alumina, Spinel	Hydraulic	1850	25	92.5	5.4	0.2
CALDE® CAST UB 80	Bauxite	Hydraulic	1650	6	82	-	12
CALDE® CAST UB 85	Bauxite	Hydraulic	1680	6	83.5	-	11.6
CALDE® CAST UB 85 D3	Bauxite, Chromium oxide	Hydraulic	1700	6	87	-	6.5
CALDE® CAST UB 86 G8	Bauxite	Hydraulic	1650	8	86.5	-	9.2
CALDE® CAST UC 80	Corundum	Hydraulic	1700	10	80	-	17
CALDE® CAST UC 90 D	Corundum, Chrome oxide	Hydraulic	1800	10	90.5	-	2.3
CALDE® DRY SM 50	Olivine	Ceramic	1750	6	-	50	40
CALDE® FLOW LT 95 SP	Tabular Alumina, Spinel	Hydraulic	1750	6	95.7	2.4	0.1
CALDE® FLOW UB 80	Bauxite	Hydraulic	1600	6	83	-	14
CALDE® FLOW UC 88 D4	Corundum, Chrome oxide	Hydraulic	1750	6	88	-	3.6
CALDE® FLOW UC 92 D4	Corundum, Chrome oxide	Hydraulic	1850	6	91	-	-
CALDE® MAG CAST G 95	Magnesia	Chemical	1750	3.15	0.4	94.4	2.2
CALDE® MAG COAT K 95	Magnesia	Chemical	1650	0.5	-	95	2.4
CALDE® MAG COAT S 80	Magnesia	Chemical	1650	3.5	1	80	13
CALDE® MAG DRY K 56	Dolomite	Ceramic	1700	4	-	56	1.9
CALDE® MAG DRY K 67 G6	Magnesia	Ceramic	1750	6	0.3	67.5	1.3
CALDE® MAG DRY K 70 G8	Magnesia	Ceramic	1750	8	-	71	0.7
CALDE® MAG DRY K 67 G8	Magnesia	Ceramic	1750	8	0.3	67.5	1.3
CALDE® MAG DRY K 75	Magnesia	Ceramic	1750	5	-	77	0.7
CALDE® MAG DRY K 75 G6	Magnesia	Ceramic	1750	6	-	78.5	0.8
CALDE® MAG DRY K 78 G2	Magnesia	Ceramic	1750	2	-	78	1.2
CALDE® MAG DRY K 80 G8	Magnesia	Ceramic	1750	8	-	79	0.7
CALDE® MAG DRY K 85	Magnesia	Ceramic	1750	5	-	84	1
CALDE® MAG DRY K 85 G6	Magnesia	Ceramic	1750	6	-	84	1
CALDE® MAG DRY K 95	Magnesia	Ceramic	1700	5	1.0	94.5	1.5
CALDE® MAG FRIT 40 G5	Dolomite	Ceramic	1700	4	0.6	37.5	2
CALDE® MAG FRIT 80 G5	Magnesia	Ceramic	1700	5	-	80	1.4
CALDE® MAG FRIT 80 G8	Magnesia	Ceramic	1700	8	-	80	1
CALDE® MAG GUN G 80	Magnesia	Chemical	1750	3.5	0.6	81.3	12.7
CALDE® MAG GUN G 89	Magnesia	Chemical	1750	3.5	1	86	9.3
CALDE® MAG GUN GS 82	Magnesia	Chemical	1700	4	-	82	9.3
CALDE® MAG GUN P 82	Magnesia	Chemical	1750	3.5	0.6	82	11.5
CALDE® MAG GUN P 89	Magnesia	Chemical	1750	3.5	1.3	88.1	5.9
CALDE® MAG GUN S 65	Magnesia	Chemical	1750	3.15	-	65	12
CALDE® MAG GUN S 80	Magnesia	Chemical	1750	3.5	0.6	80.9	12.5
CALDE® MAG GUN S 89	Magnesia	Chemical	1750	3.5	1.1	87.1	6.9
CALDE® MAG PATCH P 80	Magnesia	Chemical	1700	3	11	81	-
CALDE® MAG RAM R 96 G	Magnesia, Carbon	Chemical	1700	5	0.5	96	1.5
CALDE® PLAST 85 S	Bauxite	Chemical	1700	6	85	-	7.4
CALDE® TROWEL G 100	100% Graphite	Chemical	1650	0.1	-	-	-
CALDE® TROWEL SB 75	Bauxite	Ceramic	1650	1.2	76	-	19.8

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