



NON FERROUS FOUNDRY



EXTRA
CALDERA





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.

With a presence in more than 30 countries on the 5 continents and a strong footprint in the Americas through the brand HWI (HarbisonWalker International), Calderys' international network of experts ensures an end-to-end offer with tailored services.

Drawing on over 150 years of experience, we are constantly developing innovative products and techniques, optimizing 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.

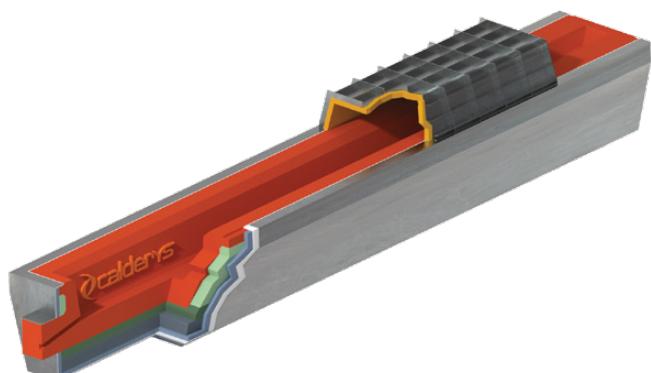
Calderys pays particular attention to industry's impact on the environment and has a sustainability program articulated around three pillars: supporting our customers in their energy transition needs, improving our environmental footprint and being committed to people and local communities.

Health and safety are an integral part of how we do business, and our activities require the highest level of professionalism to carry out our projects. The same attention to detail that helps us provide personalized products and solutions is also applied to our rigorous health and safety criteria — applicable to both our own employees as well as subcontractors and temporary workers.

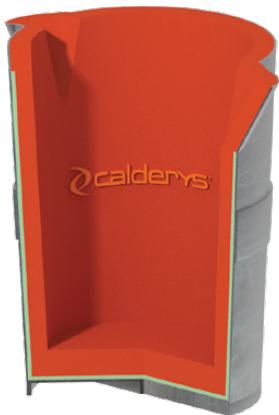
Product name	Main component	Chemical composition		Maximum Operating temperature (°C)	Construction requirements (t/m³)	Standard water addition volume(%)	Bulk density after drying at 110°C	Application areas, features
		Al₂O₃	SiO₂					
Castable								
ALKON® CAST 204	Bauxite	79.7	9.0	1200	2.8	5.2 - 6.2	2.81(g/cm³)	General-purpose castable
ALKON® CAST LB 85	Bauxite	81.7	8.3	1300	2.9	5.0 - 6.0	2.9(g/cm³)	General-purpose castable
ARMORKAST 80AL C ADTECH® IP		82.0	9.7	1316	2.8	5.0 - 5.7	2.85(g/cm³)	This material is strong and durable, even at high temperatures. It doesn't react with molten aluminum and can handle wear, impact, and temperature changes. It's ideal for the tough parts of aluminum furnaces, like the bottom, sides, and areas in direct contact with molten metal.
CALDE® AL CAST LB 85 IP	Bauxite	82.0	10.0	1500	2.7	4.8 - 5.4	2.73(g/cm³)	For aluminum contact
CALDE® CAST 1560	Andalusite	59.0	36.0	1650	2.5	6.4 - 7.6	2.45(g/cm³)	General-purpose castable
CALDE® CAST GIBRAM	Bauxite	82.8	11.4	1600	2.9	5.0 - 6.0	2.91(g/cm³)	General-purpose castable
CALDE® CAST LR 25 IP		25.0	65.0	1200	2.1	7.5 - 8.3	2.10(g/cm³)	High alkali & acid resistance
CALDE® GUN MM 56 S5	Mullite	55.0	31.0	1500	2.1	added at the nozzle	2.51(g/cm³)	Cement
Castable C-16	Bauxite	73.0	17.0	1600	2.4	7.2 - 7.9	2.52(g/cm³)	General-purpose castable
Castable C-16 BRS	Bauxite	67.0	24.0	1650	2.5	6.2 - 6.8	2.55(g/cm³)	High temperature & thermal shock resistance
Castable Guncast C-1600	Bauxite	65.0	24.0	1600	2.2	added at the nozzle	2.25(g/cm³)	General-purpose castable
Castable Guncast C-1600 EX	Corundum	54.0	38.0	1550	2.1	added at the nozzle	2.14(g/cm³)	General-purpose castable
Castable RORAM-AND	Andalusite	60.0	33.0	1600	2.5	5.1 - 5.7	2.60(g/cm³)	General-purpose castable
Castable RORAM-GB AL 5	Bauxite	84.0	11.0	1700	2.7	5.2 - 5.8	2.79(g/cm³)	Anti wetting, abbrasive & impact resistance
ULTRA-GREEN® 45 IP		49.0	45.0	1650	2.3	4.9 - 5.5	2.35(g/cm³)	High strength, low porosity, and excellent hot load and corrosion resistance. Ideal for original linings, repairs, precast shapes, iron, steel, and non-ferrous furnaces, cement kilns, boilers, and chemical processing
VERSAFLOW® 55/AR ADTECH® IP		55.0	39.0	1650	2.3	5.5 - 6.2	2.45(g/cm³)	This material resists alkali very well and stays strong at high temperatures (1093°C). It can withstand extreme heat and is easy to shape by casting, pouring, or pumping with a little water adjustment. This is used in aluminum furnace walls and roofs, diecast furnaces, steel ladle and tundish covers, cement preheaters, and incinerator burners and kilns
Insulation								
Castable IC-11 HS	Fillite	37.0	34.0	1100	1.1	35.0 - 40.0	1.05(g/cm³)	General-purpose castable
Patching								
CALDE® PATCH LR 35 IP		35.0	56.0	1200	2.0	9.0 - 9.9	1.99(g/cm³)	Patching/ Throwling



Coreless induction furnace



Runner



Transport ladle



Tilting furnace

