

Casting Brick





Created in 2009, Trasteel Group has become one of the leading players in the steel industry

Trasteel Group was founded in 2009 as the result of the vision of a group of entrepreneurs and professionals with 40 years of international experience in the steel industry.

Today, Trasteel is a trading and industrial Group active in the steel, energy and metallurgical sectors. Headquartered in Lugano, it has over 900 employees operating in four trading desks and various industrial plants in Europe, Middle East and Asia-Pacific.

Leveraging on the combined experience, the mission of the Group is to provide better, deeper and more flexible services to the whole supply chain.

Since the high quality of the supplied materials is not enough to meet the evermore sophisticated needs of the market, Trasteel Group keeps expanding its horizons by maintaining high dynamism and diversification.

Sustainability and innovation are priorities and key aspects for the Group to focus on. Long-term targets are not an easy challenge to face, but Trasteel is committed to broaden its ESG policies.

+150

products supplied

+1.000

specialists worldwide
and growing



DISCOVER MORE
ABOUT OUR ESG VISION

Trasteel network



+50

markets covered

+4.000

customers



DISCOVER MORE ABOUT
THE STEEL MARKET

● **Headquarters**

Switzerland, Luxembourg

● **Trading Offices**

Lugano, Dusseldorf, Dubai, Shanghai, Bayuquan, Buenos Aires, Istanbul, Goma, Singapore, New York, France, Spain, Finland

● **Industrial Premises**

San Giorgio di Nogaro, Massa, Racconigi, Sesto Al Reghena, Cavallerleone, Lombardore (Italy), Nova Pazova (Serbia), Bayuquan (China), Izmir (Turkey)

● **Markets Covered**

EU, United Kingdom, Turkey, Israel, Serbia, Ukraine, Kazakhstan, Uzbekistan, Azerbaijan, U.A.E., Saudi Arabia, Oman, Brazil, Chile, Colombia, Argentina, Perù, Bolivia, Mexico, USA, Canada, Japan, South Korea, China, Malaysia, Indonesia, Philippines, Vietnam, Thailand, Taiwan, Australia, South Africa, Congo (DRC), Egypt, India, Algeria, Morocco, Tunisia, Pakistan, Norway

Hollow ware casting bricks

Trasteel owns a stake in one of the major Chinese producers of alumina and silice bricks, specialized in the production of casting bricks, coke oven bricks and cowper bricks. This joint venture is named Trasteel Zibo Refractories.

Trasteel's Casting Bricks comprise a range of products designed and shaped to meet our customers' requirements.

Depending on casting requirements we can offer materials ranging from 40% to 80% for Al_2O_3 content.

The Fe_2O_3 content can be controlled and guaranteed according to customer requirements.

The products can be obtained either by pressing or extrusion, depending on the format and customer requirements.

The production methods applied ensure that even very complex geometries can be obtained, with minimum thicknesses of up to 40 mm and extensions of up to 500 mm, in full compliance with the tolerances and linearity required to obtain the best product performances.

Trasteel's technical expertise, applied in the choice of materials and production techniques, based on the needs of each customer, ensures the absence of infiltration and excellent erosive wear resistance typical of this application.



Casting brick quality

Below are the indicative qualities we can offer

	Al ₂ O ₃ (%)	Fe ₂ O ₃ (%)	SiO ₂ (%)	TiO ₂ (%)	Refractoriness CS/SC	°C Max service temperature	Apparent Porosity (%)	Bulk Density	Cold Crushing Strenght
CB40H	≥ 40	≤ 2,3	≤ 54	-	32	1750°C	≤26	≥2.10 kg/m ³	≥30 MPa
CB60H	≥ 60	≤ 2,2	≤ 30	2.3	33	1750°C	≤26	≥2.20 kg/m ³	≥30 MPa
CB60L		≤ 1,8		2.3		1750°C			
CB70H		≤ 2,2		2.2		1800°C			
CB70L	≥ 70	≤ 1.8	≤ 27	2	36	1800°C	≤24	≥2.30	≥38 MPa
CB70U		≤ 1.4		2		1800°C			
CB70HL		≤ 1.2		2		1800°C			
CB80H		≤ 2,2		1.5		1840°C			
CB80L	≥ 78	≤ 1.8	≤ 20	1.5	38	1840°C	≤23	≥2.30 kg/m ³	≥40 MPa
CB80U		≤ 1.4		1.5		1840°C			
CB80HL		≤ 1.2		1.5		1840°C			

Offer range

For all formats, it is possible to supply bricks with metal straps at the customer's request.



Funnel

Possibility of supplying special formats with thin walls and high heights



Column

Possibility of supplying components with external diameters from a minimum of 60 mm to maximum of 300 mm.



Column Bases

Supplied with Male/Male, Female/Female or Male/Female couplings according to customer requirements.



Spider

Models that can be produced with from 1 to 10 holes in various shapes and models.



Runners

It is possible to produce formats with a minimum size of 30 mm and maximum lengths of up to 500 mm.



End Runners

Possibility of producing the components in one-piece or case-hardened assembly, based on the required geometry.



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