

FRC Global

Furnace Refractories





Expert Teams.



Quality Products.



Global Networks.

Who We Are

FRC Global is a leading supplier of refractories, electrodes, and high temperature combustion systems. FRC Global provides outstanding results for our clients within the iron, steel, and non-ferrous industries. Our company's reputation is built by delivering high quality products made with premium raw materials. We are more global now than ever before.

We give you a competitive advantage by offering you superior proven products that positively impact your bottom line and perform better. Our knowledgeable engineers ensure the proper application of our products to give you the maximum level of output and safety.

With over 25 warehouse facilities in the United States, Canada, Mexico, and South America we assure your products are readily available when you need them in these regions.

Through the use of vast global resources, all of us at FRC Global are committed to being the value creators and problem solvers for our industry.



Our Mission

Embrace modern technology to increase innovation, efficiency, and transparency. Inspire the next generation by driving change, promoting curiosity, and shaping sustainable solutions in the high temp world.





About Us

Background Information

FRC Global is a second generation family owned company with a 30-year history.

Global Offices

FRC Global has offices, agents, or partners in 20 countries around the world.

- North America: United States and Canada
- South America: Colombia
- Asia: China

We provide quality engineered products and services for all your high temperature applications.

FRC Global facts

Our quality control employees thoroughly inspect shipments to ensure products are within specification and are properly packaged.

Sales force and service needs are available in the following:

- North America
- Central America
- South America
- Europe
- Middle East



Why FRC Global?

We show up for high-temp potential.

For over three decades, we have built strong partnerships by living up to our reputation of showing up for our customers. Our team is made up of hard-working people—many who have been in your shoes and understand the challenges you face. We are constantly thinking ahead, anticipating new barriers, and providing better solutions.

Our team knows that no two challenges are the same. When we show up to understand you and your operation, we study it to ensure we propose solutions, not just products.

As a company full of dedicated product managers and meticulous quality control teams, we travel around the

world to produce high-end products from only the best raw materials. With seasoned engineers on staff, we identify opportunities for performance and production improvements.

We are committed to excellence. Our strong relationships with global enterprises—primarily in strategic raw materials—ensure availability, performance, and consistent high quality. Our vast network serves as a cornerstone in our ability to deliver results on a global scale.

As proactive problem-solvers, we see your challenges as our own and look forward to achieving your project's greatest potential.



Providing Solutions

Providing high temperature solutions for your melting and/or refining furnace

- We are positioned to supply all of your refractory requirements in this area.
- We offer brick in magnesia-carbon, magnesia-alumina carbon and burned magnesite with or without tar impregnation.
- For induction furnaces, we have a nearly complete catalog of dry-vibratables, excluding pure quartz systems.
- Our plants are ISO 9001 certified and own/control their raw material feedstocks.
- We supply a full range of hot- and cold-repair specialties, as well as pre-cast shapes and masses to complete and maintain your installation.

Understanding your needs

- We are your answer to furnace availability and refractory cost per ton of metal produced.
- We provide reliable and consistent refractory supply, performance and the most advanced furnace refractories the world has to offer.
- Our company delivers excellent service before, during and after the brick is installed.

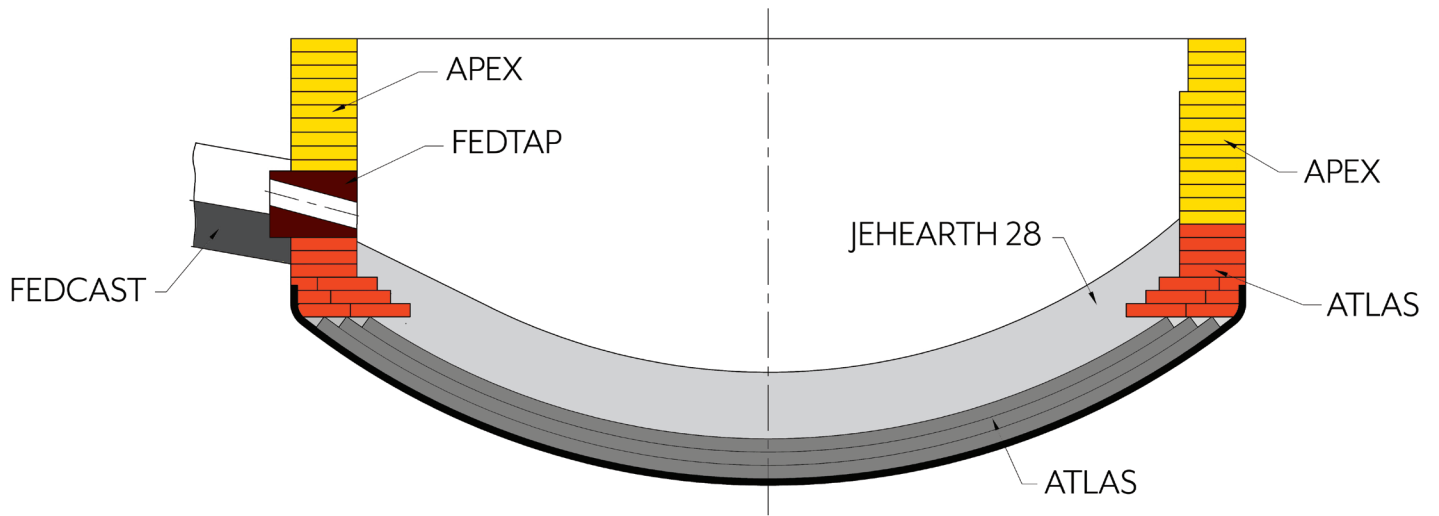
EAF Product Line

Product	Chemical analysis % by weight approximate						B. Density g/cm ³	CCS psi	App. Por. %
	MgO	Cr ₂ O ₃	Al ₂ O ₃	Fe ₂ O ₃	CaO	SiO ₂			
Stadium Brick									
ATLAS 92 DURACHROME® 60	>92		1.0	1.0	2.0	<4	2.92	6498	<18
	62.0	17.0	8.2	10.2	1.5	1.1	3.08	5507	17.0
Subhearth Brick									
ATLAS 95	>95.1		0.8	0.8	<1.4	<2	3.00	7971	<18
Cold Spot Brick* any carbon available upon request									
APEX® 5	95.0	---	0.2	1.9	2.4	0.6	2.85	>3200	~3.0
APEX® 6	96.0	---	0.5	0.7	1.9	0.9	2.88	>3800	~3.0
Hot Spot Brick* any carbon available upon request									
APEX® 7	97.1	---	0.2	0.3	1.8	0.6	2.96	>3800	~3.0
APEX® 8	97.6	---	0.2	0.2	1.4	0.6	3.01	>4000	~2.0
Taphole									
FEDTAP 80	>98	---	0.2	0.2	1.2	0.4	3.00	>5797	~4

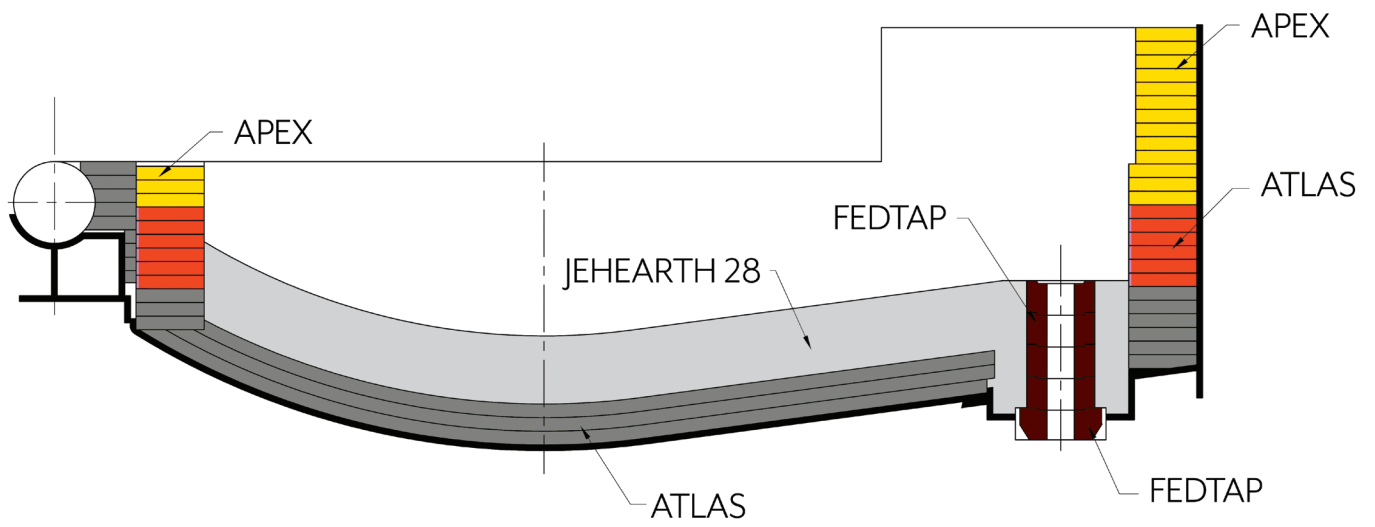
*antioxidants available, magnesite portion only

Furnace Bottom Material	Chemical analysis % by weight approximate						B. Density Kg/dm ³	Application	Bond
	MgO	Cr ₂ O ₃	Al ₂ O ₃	Fe ₂ O ₃	CaO	SiO ₂			
JEHEARTH 355D	84.0	---	0.3	4.2	10.0	0.9	2.7	Cold	Ceramic
JEHEARTH 28	79.7	---	0.5	5.0	14.0	0.8	2.7	Cold	Ceramic

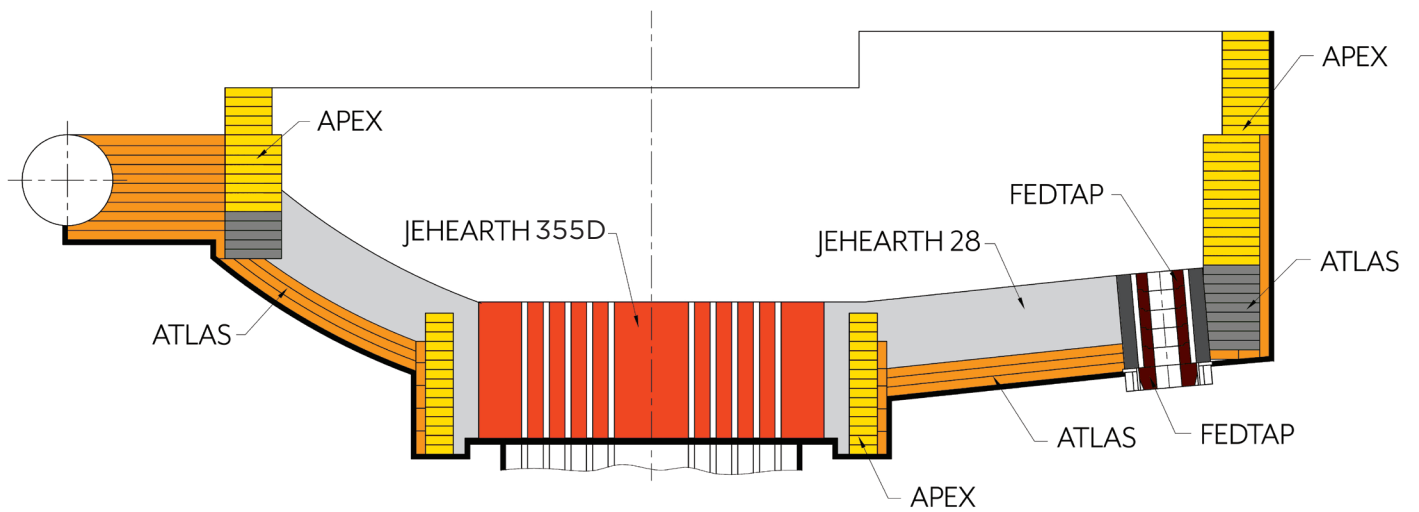
AC Conventional Tapping



EBT AC EAF



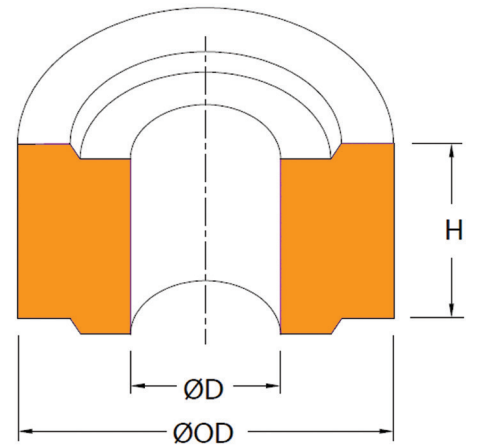
EBT DC EAF



Any carbon available upon request

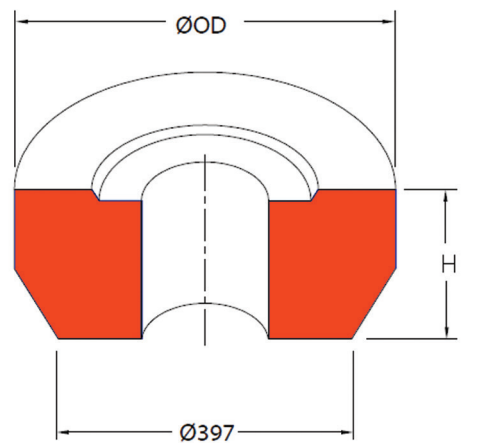
Taphole

Symbol	Dimension (mm)			Volume	
	ID	OD	H	dm ³	in ³
FS 350/130	130	350	150	12.37	754.86
FS 350/140	140			12.12	739.39
FS 350/150	150			11.72	715.2
FS 350/160	160			11.36	693.23
FS 350/170	170			10.97	669.43
FS 350/180	180			10.56	644.41
FS 350/200	200			9.67	590.10
FS 350/220	220			8.69	530.30
FS 350/130-2	130	350	200	16.49	1006.49
FS 350/140-2	140			16.16	985.86
FS 350/150-2	150			15.63	983.60
FS 350/160-2	160			15.15	924.31
FS 350/170-2	170			14.63	892.57
FS 350/180-2	180			14.08	859.21
FS 350/200-2	200			12.89	786.80
FS 350/220-2	220			11.59	707.06



End Block

FE 130	130	450	180	24.13	1472.50
FE 140	140			23.79	1451.75
FE 150	150			23.43	1429.78
FE 160	160			23.04	1405.98
FE 170	170			22.62	1380.35
FE 180	180			22.18	1353.50
FE 200	200			21.23	1295.40
FE 220	220			20.71	1263.98





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