

FRC Global

Copper, Nickel & Lead 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

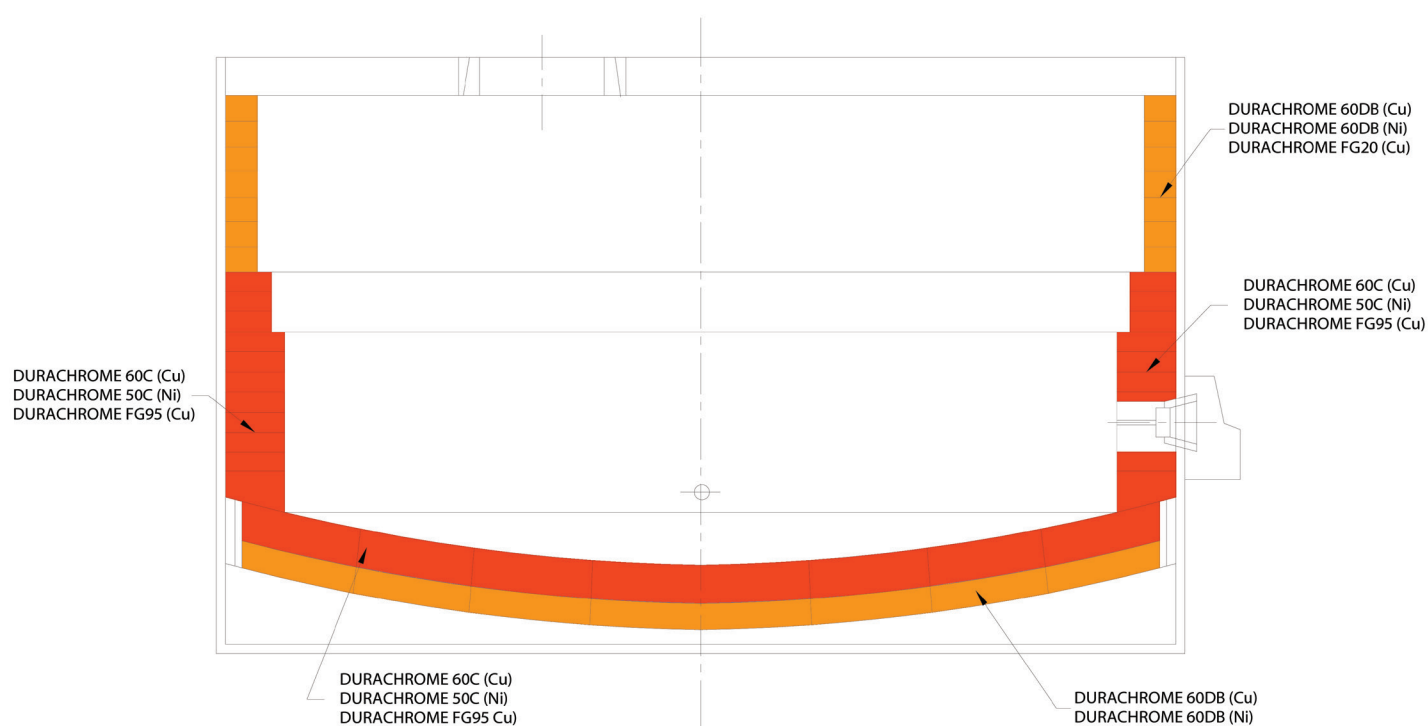
world to produce high-end products from only the best raw materials. With seasoned engineers on staff, we identify opportunities for performance and production improvements.

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.

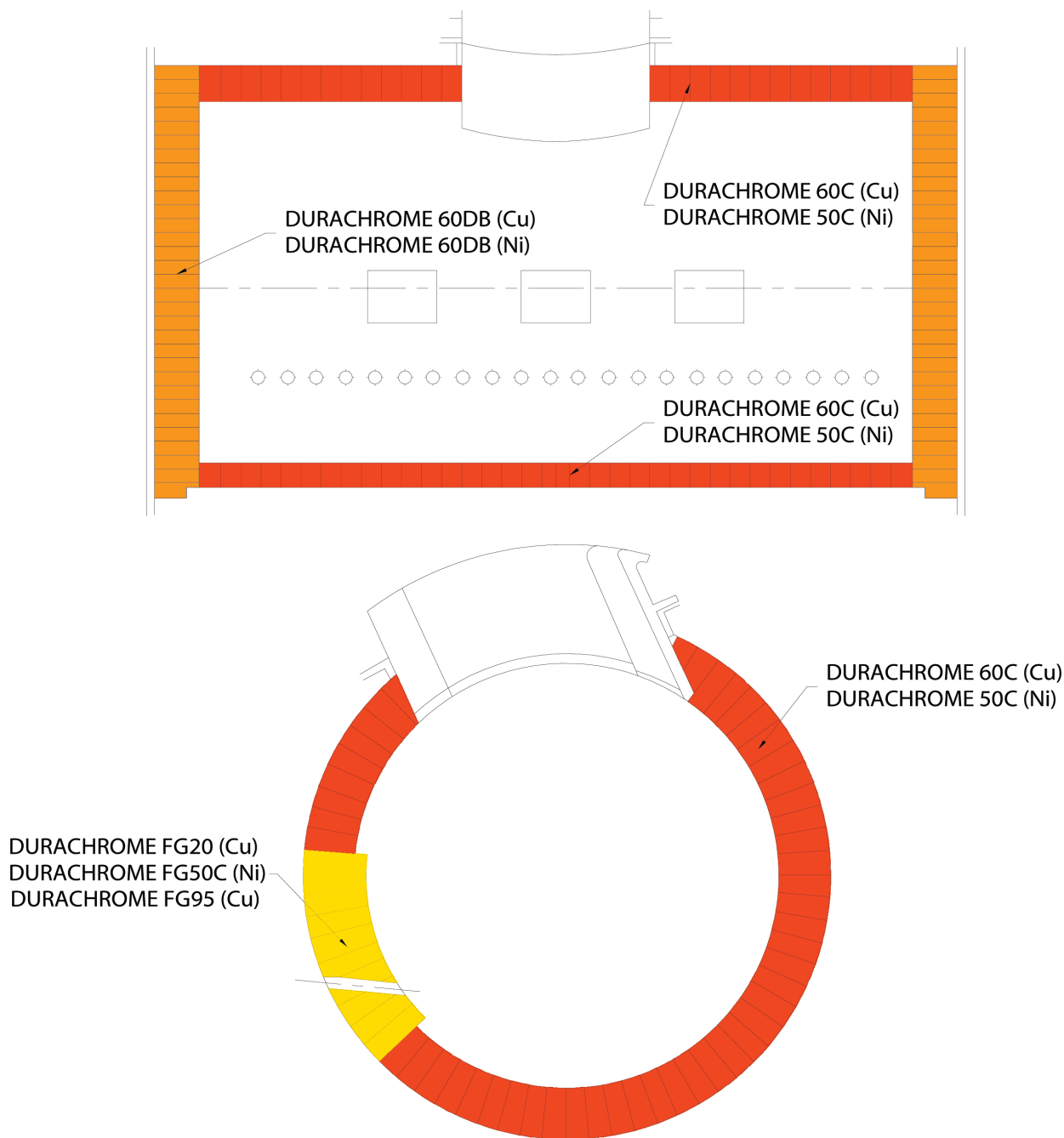
As proactive problem-solvers, we see your challenges as our own and look forward to achieving your project's greatest potential.

Slag-Cleaning Electric Furnace

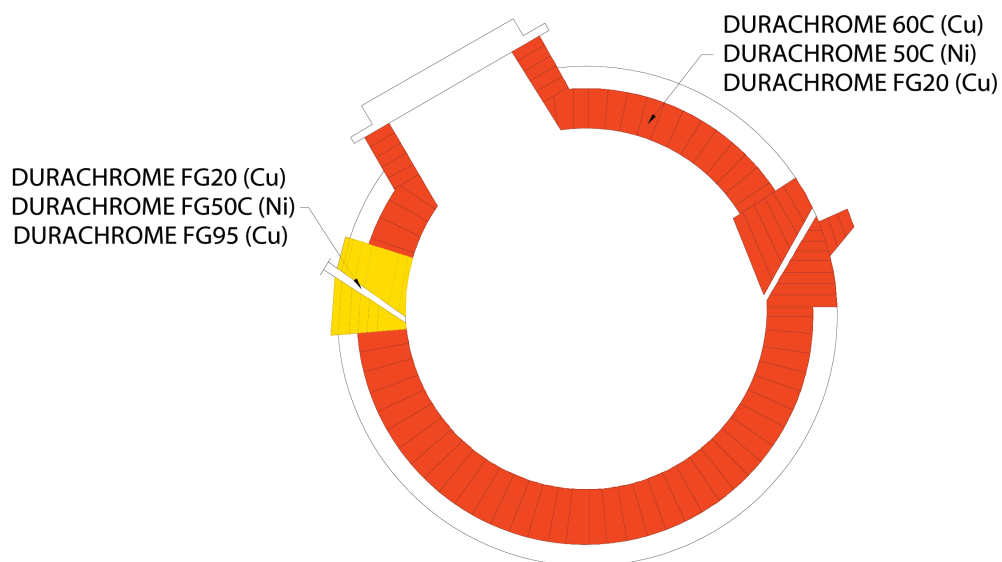
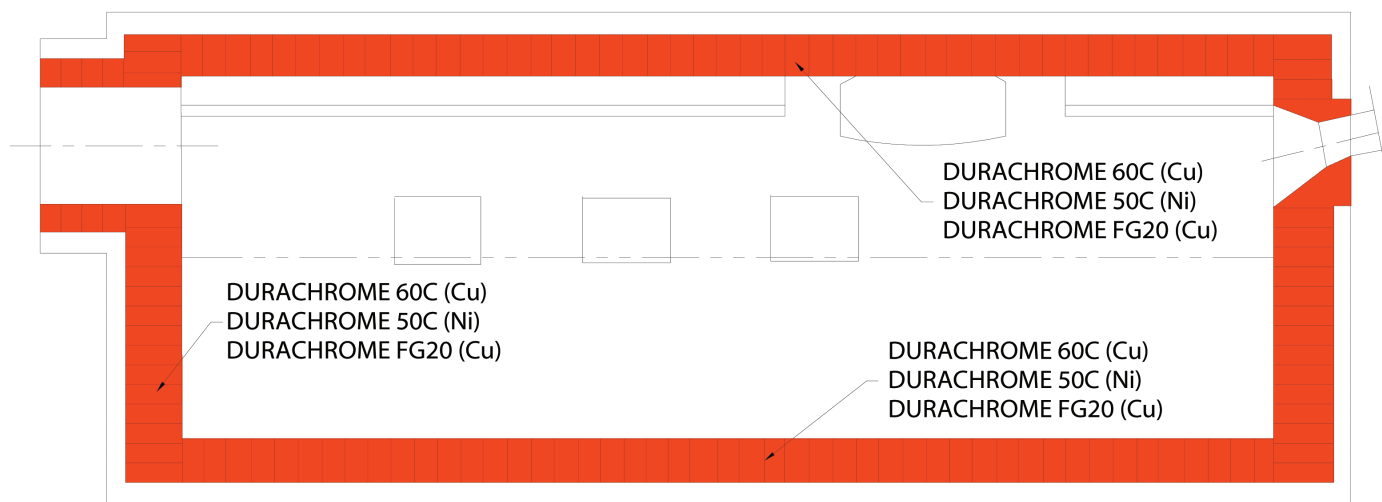
SCF (CU, Ni)



Converter (Cu, Ni)

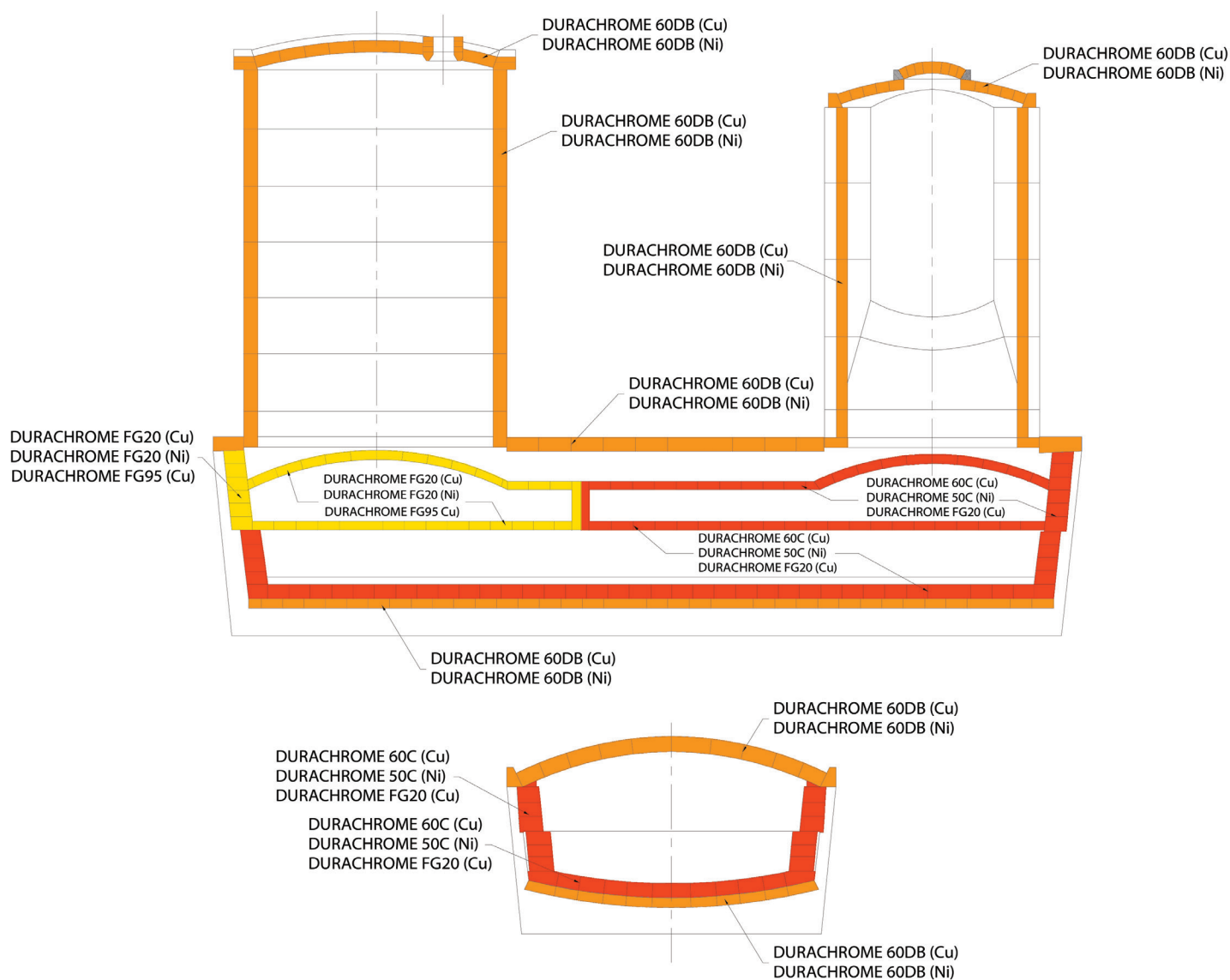


Drum Type Anode Furnace (Cu, Ni)

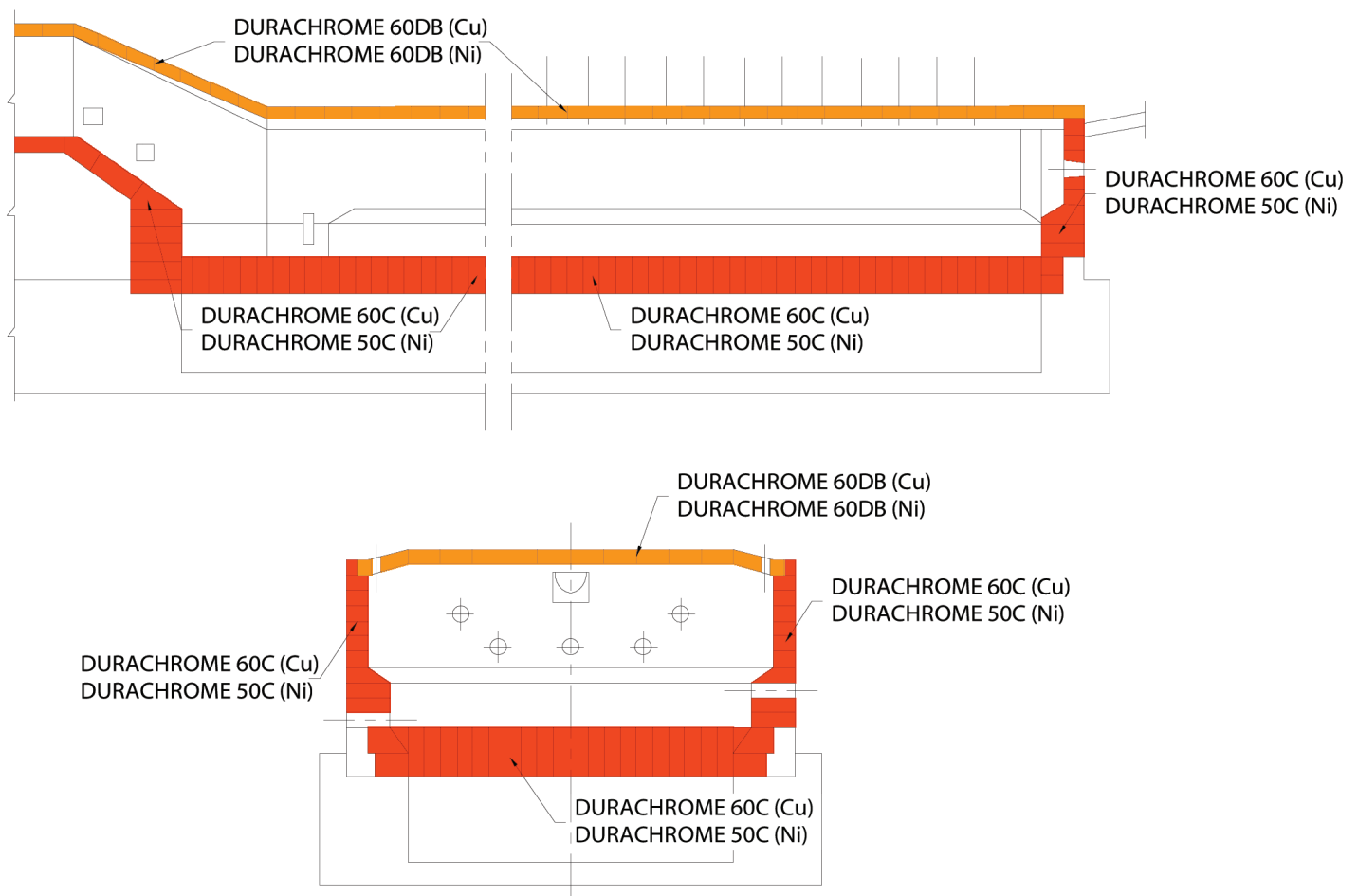


Flash Smelting Furnace

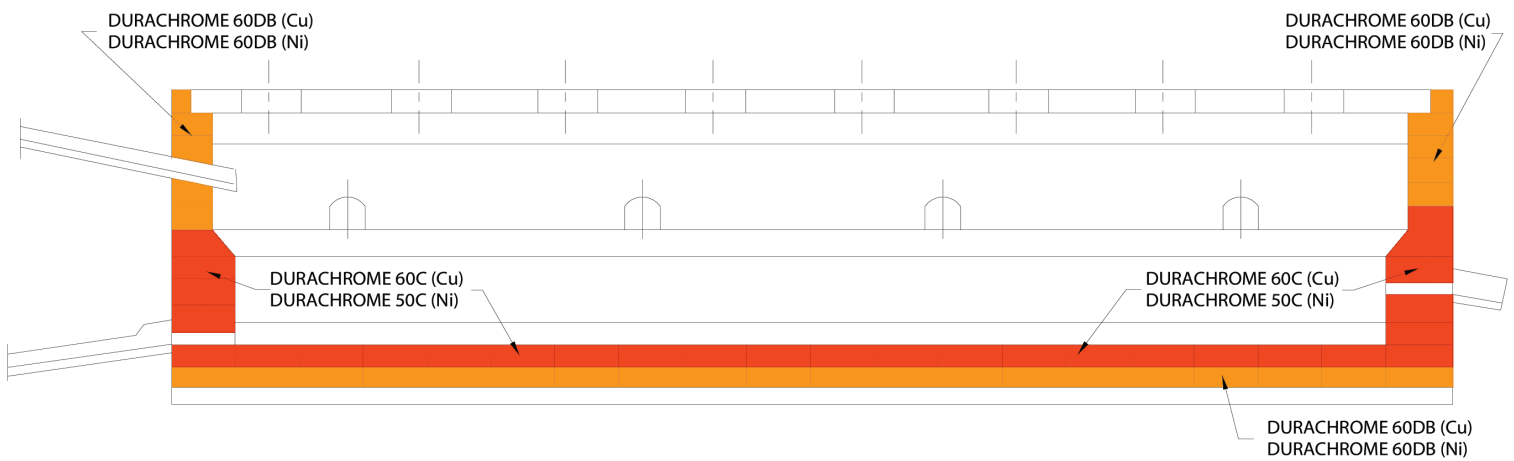
FSF (CU, Ni)



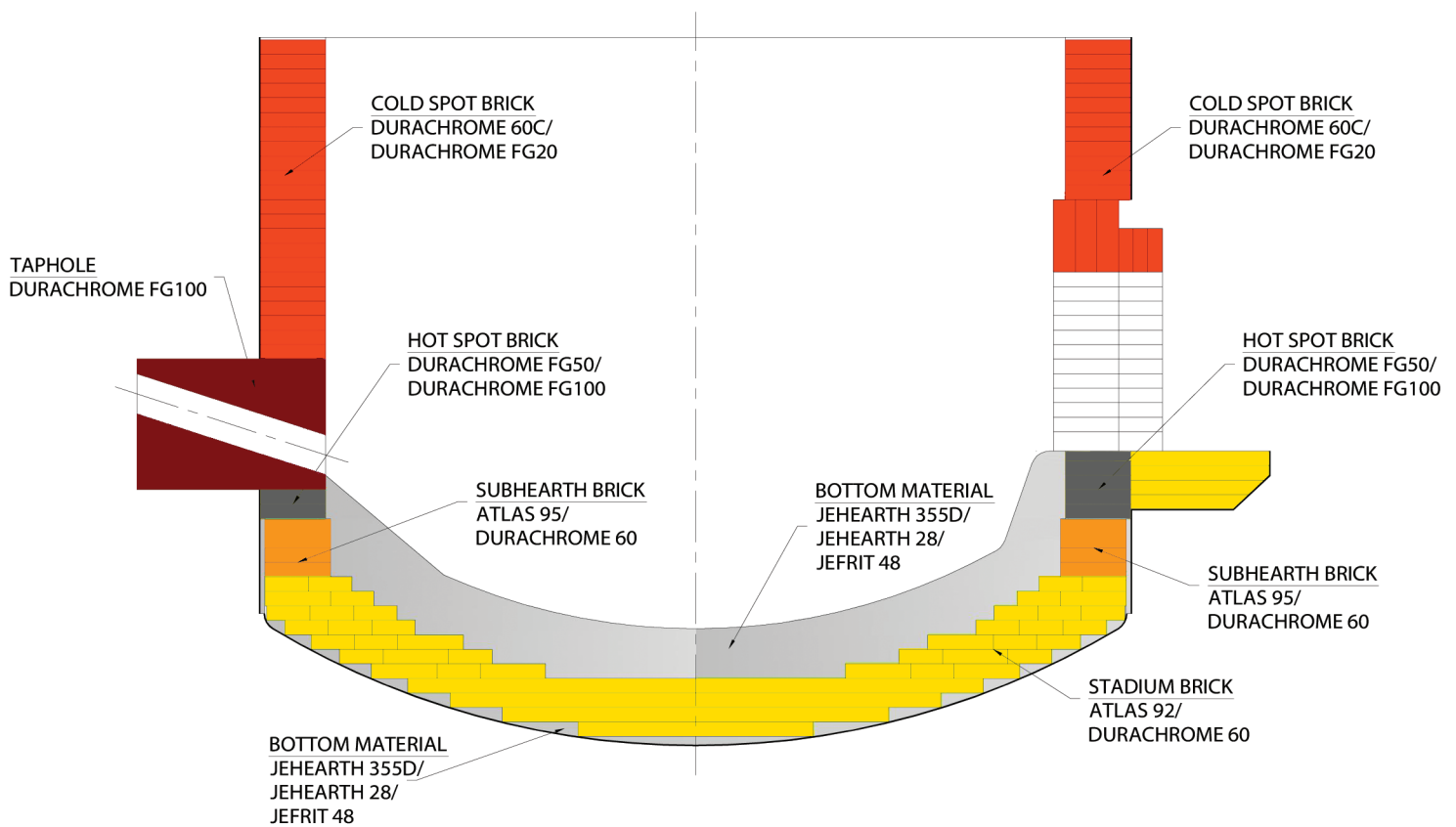
Ore-Melting Reverberatory Furnace (Cu, Ni)



Ore-Melting Electric Furnace (Cu, Ni)



Electric Arc Furnace for Secondary Refining



Monolithics

Product	Chemical Composition (%)						Bulk Density g/mL	Apparent Porosity %	Use
	Al ₂ O ₃	Cr ₂ O ₃	ZrO ₂	Fe ₂ O ₃	MgO	SiO ₂			
Fedcast CZ	61	31	3	0.4	-	2	3.43	14	Precast Shapes
Fedcast N	64	-	-	1	0.1	30	-	-	Castable
Fedcast FG	4	19	-	6	65	2.8	3.07	19	Castable
Fedplas 85C	83	10	-	0.1	0.2	3	3.25	-	Plastic
Fedplas 90C	91	5	-	0.1	-	0.3	3.00	-	Plastic
Fedcast 94C	94	3	-	0.1	-	0.3	3.04	-	Castable
Fedram 90C	91	5	-	0.1	-	0.3	3.00	-	Ram



Installation & Supervision Services

We have the ability to install, supervise, or provide technical assistance with the installation of its refractories as required. Ask your FRC Global representative what is available.



Working Lining Brick

Product	Chemical analysis % by weight approximate						B.Density (g/cm ³)	CCS (Mpa)	AP %	Carbon range
	MgO	Cr ₂ O ₃	Al ₂ O ₃	Fe ₂ O ₃	CaO	SiO ₂				
ATLAS 92 DURACHROME® 60	>92		1.0	1.0	2.0	<4	2.92	50	<18	---
	>60	17.0	8.2	10.2	2.0	1.5	3.08	45	20.0	---
ATLAS 95 DURACHROME® 60	>95.1		0.8	0.8	<1.4	<2	3.00	50	<18	---
	>60	17.0	8.2	10.2	2.0	1.5	3.08	45	20.0	---
DURACHROME® 60C DURACHROME® FG20	>60	17.8	10.0	10.2	2.0	1.5	3.1	50	18	
	>58	18.0	11.0	10.0	2.0	1.5	3.18	60	16	
DURACHROME® FG50 DURACHROME® FG100	>55	20.0	12.0	10.0	2.0	1.5	3.2	70	15	
	>55	20.0	12.0	10.0	2.0	1.5	3.3	80	14	
DURACHROME® FG100	>55	20	12.0	10.0	2.0	1.5	3.30	80	14	

Furnace Bottom Material	Chemical analysis % by weight approximate						B. Density Kg/dm ₃	Appli-cation	Bond	Grain Size
	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	0-5mm
JEHEARTH 28	79.7	---	0.5	5.0	14.0	0.8	2.7	Cold	Ceramic	0-8mm
JEFRIT 48	80.7	---	0.4	6.9	11.1	0.9	2.6	Hot	Ceramic	0-8mm



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