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CATALOG

REFRACTORY SOLUTIONS

BUILT ON EXPERIENCE, ENGINEERED FOR PERFORMANCE



KNOWLEDGE-BASED
COMPANY

(دانش بنیان فناور)



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ZICO Holding

The owner of a knowledge - based product portfolio
in various industries

			
Monolithic Refractories Manufacturer	Low carbon Ferro Chrome Manufacturer	Alloy Steel & Carbon Steel Manufacturer	International Steel & Raw Materials Supplier

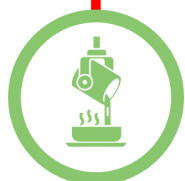
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About Us

ZICO Refractories Co. was established in 1982 and has a long standing reputation for producing high quality monolithic refractories.

Taking advantage of highly qualified experts, our company has been specialized in developing advanced monolithic refractories including Silica, Alumina & Magnesia based Ramming Mixes, Alumina based Castables, Mortars and Grouts used in high temperature operations. We have created value for our customers thanks to our professional and experienced R&D department, Quality Control, Sales Engineering and After Sales Services. We are also deeply involved in designing, engineering, installation and technical consulting with customers to improve products performance.

ZICO Co. has succeeded to received ISO 9001 :2015 and attempted to implement organization excellence model for production line and quality control of products.





A large industrial ladle pouring molten steel into a mold, with sparks flying. The image is part of a promotional graphic for ZICO Refractories Co. featuring a yellow and dark blue geometric design.

STEEL INDUSTRY



- **Coreless Induction Furnace-CIF**

- **Steel Transport Ladle**

- **Tundish**

Coreless Induction Furnace-CIF

Working Lining

Manganese Alloyed Steel	ZICORAM MAG84-10
Alloyed Steel	ZICORAM AL88 or ZICORAM AL86, ZICORAM IFSBO(S) or ZICORAM IFS1
Carbon Steel	ZICORAM AL88 or ZICORAM AL86, ZICORAM IFSBO(S) or ZICORAM IFS1

Coil Grout

Alloyed Steel	ZICO GROUT 70S, ZICOGROUT 94
Carbon Steel	ZICO GROUT 70S, ZICOGROUT 94

Top Ring

Alloyed Steel	ZICOCASE 60M to ZICOCASE 85M, ZICOCASE 60L to ZICOCASE 85L, ZICO TOP CASE
Carbon Steel	ZICOCASE 60M to ZICOCASE 85M, ZICOCASE 60L to ZICOCASE 85L, ZICO TOP CASE

Spout

Alloyed Steel	ZICOCASE 50M to ZICOCASE 70M
Carbon Steel	ZICOCASE 50M to ZICOCASE 70M

Insulating Lining of Cover

Alloyed Steel	ZICO CASE IS1200
Carbon Steel	ZICO CASE IS1200

Cover

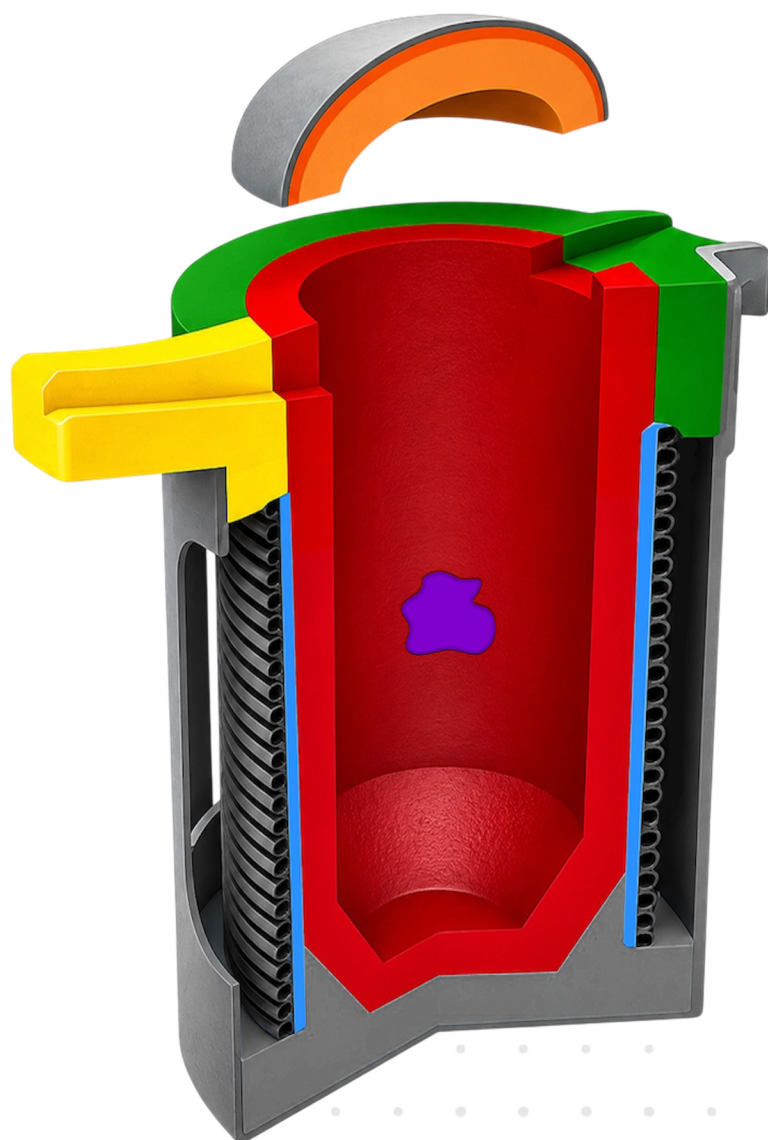
Alloyed Steel	ZICOCASE 50M to ZICOCASE 70M, ZICOCASE 50L to ZICOCASE 70L, ZICO COVER CASE
Carbon Steel	ZICOCASE 50M to ZICOCASE 70M, ZICOCASE 50L to ZICOCASE 70L, ZICO COVER CASE

Patching Materials

Manganese Alloyed Steel	ZICORAM MAG84-10
Alloyed Steel	ZICORAM AL88 or ZICORAM AL86, ZICORAM IFSBO(S) or ZICORAM IFS1
Carbon Steel	ZICORAM AL88 or ZICORAM AL86, ZICORAM IFSBO(S) or ZICORAM IFS1

Hot Repair

Manganese Alloyed Steel	ZICORAM MAG84-HR
Alloyed Steel	ZICORAM AL86-HR
Carbon Steel	ZICORAM AL86-HR

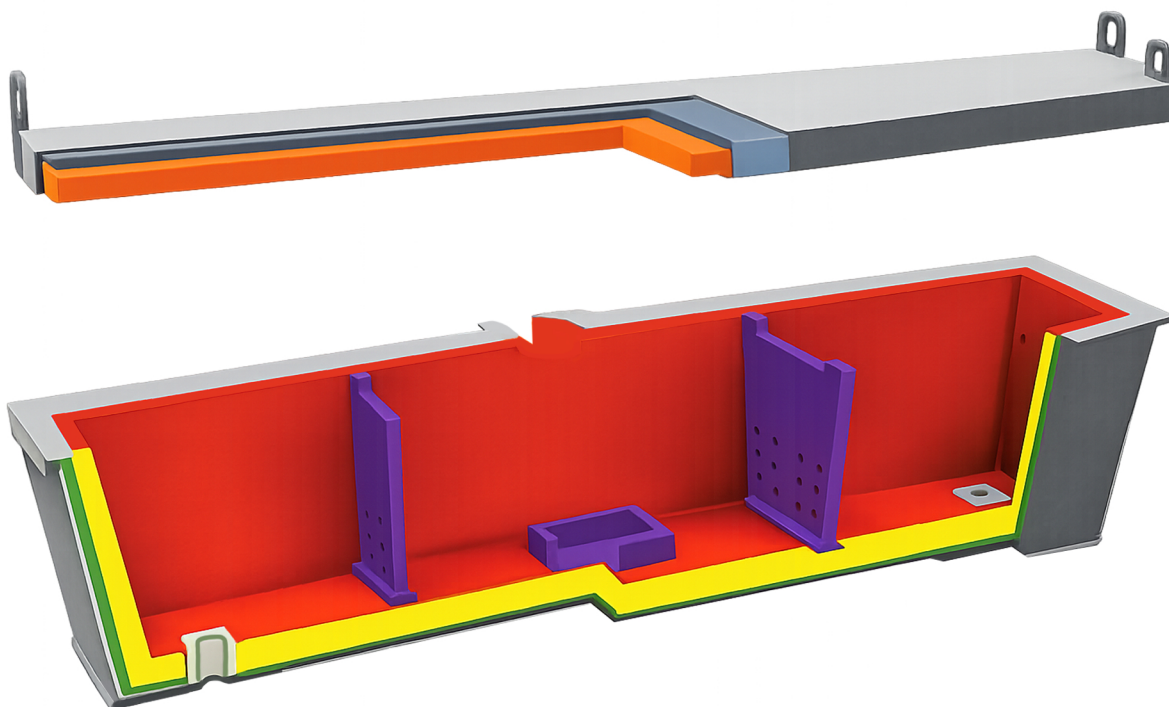


Steel Transport Ladle

Lip Ring	
Carbon Steel	ZICOCAST 60RT or ZICOCAST 70RT
Alloyed Steel	ZICOCAST 60RT or ZICOCAST 70RT
Melt Zone	
Carbon Steel	ZICORAM IFSBO(S) or ZICORAM IFS1
Alloyed Steel	ZICORAM IFSBO(S) or ZICORAM IFS1
Impact Zone	
Carbon Steel	ZICOCAST 95M or ZICOCAST 97L
Alloyed Steel	ZICOCAST 95M or ZICOCAST 97L
Safety Lining	
Carbon Steel	ZICOCAST 60L to ZICOCAST 70L
Alloyed Steel	ZICOCAST 60L to ZICOCAST 70L
Insulating Lining	
Carbon Steel	ZICOCAST IS1000 to ZICOCAST IS1200
Alloyed Steel	ZICOCAST IS1000 to ZICOCAST IS1200
Well Block	
Carbon Steel	ZICOWell block 90L-Sp
Alloyed Steel	ZICOWell block 90L-Sp
Slide Gate Mortar	
Carbon Steel	ZICOMOR SG
Alloyed Steel	ZICOMOR SG
Porous Plug Mortar	
Carbon Steel	ZICOMOR 90
Alloyed Steel	ZICOMOR 90



Tundish



Working Lining

ZICO Plaster

Permanent Lining

ZICOCAST 80L

ZICOCAST 70L

Insulation

ZICOGUN IS1000

ZICOGUN IS1200

Impact & Dam

ZICOCAST 90L-AN

ZICOCAST 96L

ZICOCAST 97L

Cover

ZICOCAST 50M

ZICOCAST 60M

Nozzle Mortar

ZICO MOR 70

ZICO MOR 80

NOTE:





CAST IRON **INDUSTRY**



- **Coreless Induction Furnace-CIF**

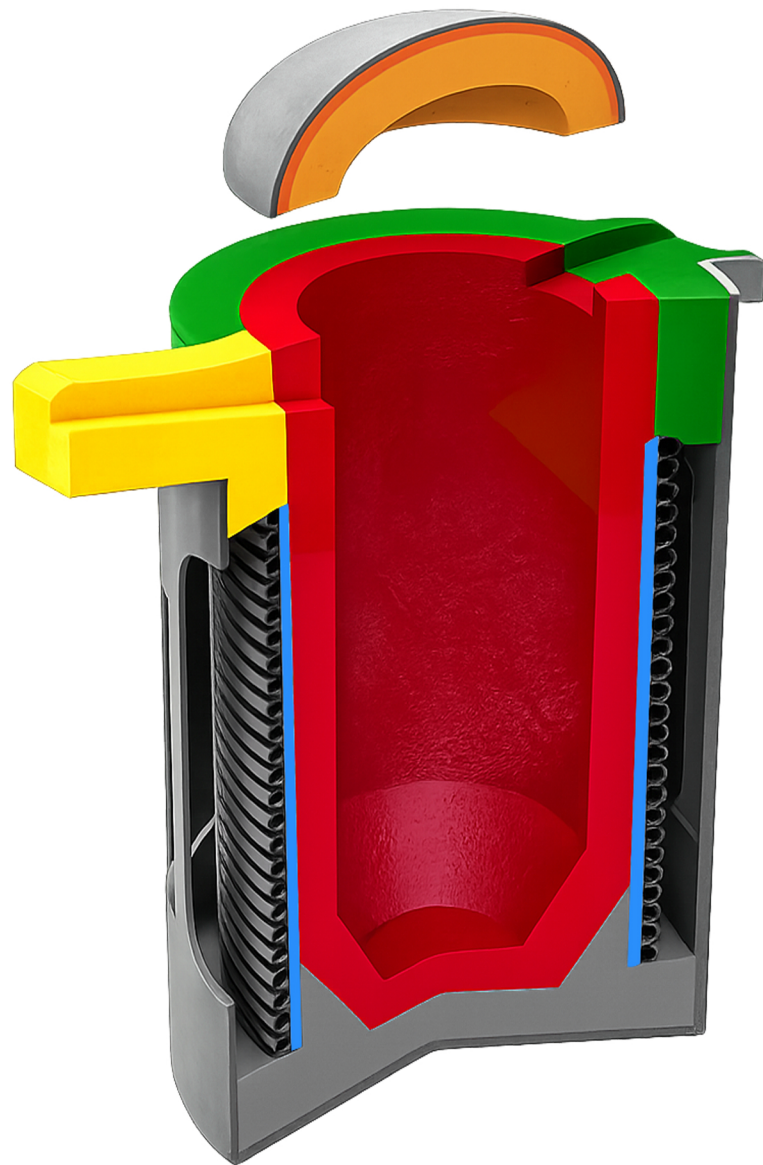
- **Iron Transport Ladle**

- **Pouring Furnace**

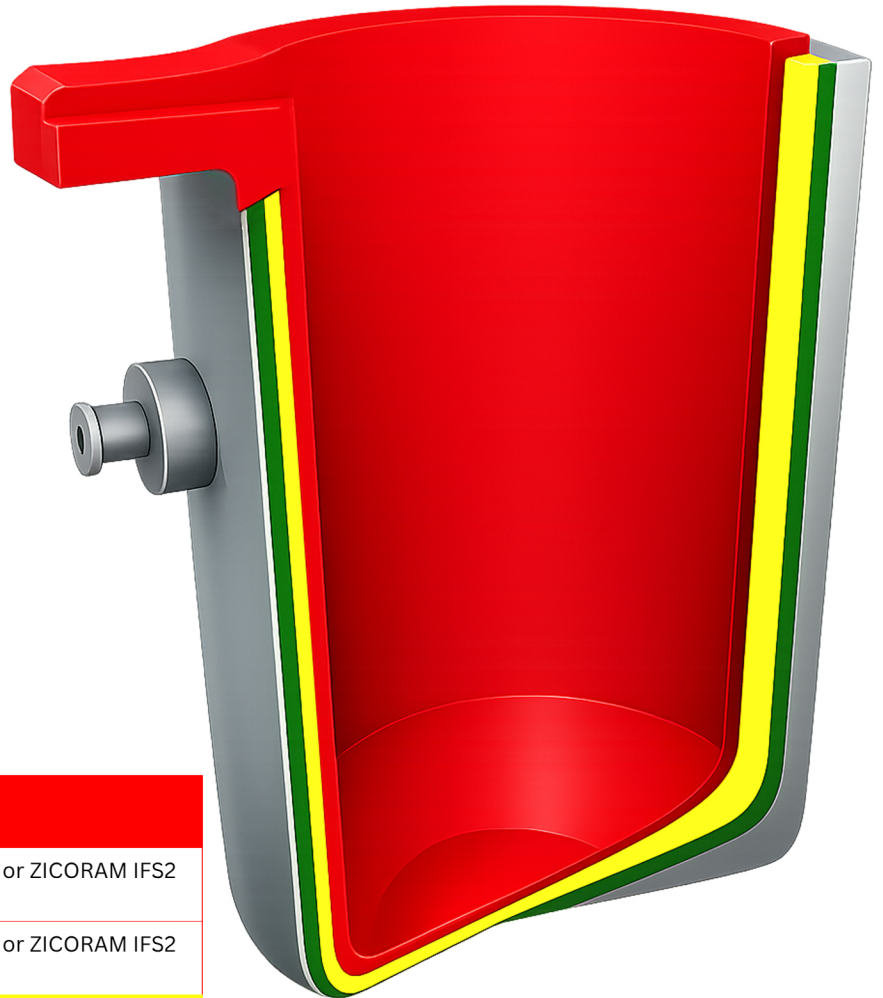
- **Holding Furnace**

Coreless Induction Furnace-CIF

Working Lining	
Ductile Cast Iron	ZICORAM IFSBO2(S) or ZICORAM IFS2
Grey Cast Iron	ZICORAM IFSBO3(S) or ZICORAM IFS3
Coil Grout	
Ductile Cast Iron	ZICOGROUT 70S
Grey Cast Iron	ZICOGROUT 70S
Top Ring	
Ductile Cast Iron	ZICOCAST 60M, ZICOCAST 60L
Grey Cast Iron	ZICOCAST 60M, ZICOCAST 60L
Spout	
Ductile Cast Iron	ZICOCAST 50M to ZICOCAST 60M
Grey Cast Iron	ZICOCAST 50M to ZICOCAST 60M
Insulating Lining of Cover	
Alloyed Steel	ZICO CAST IS1200
Carbon Steel	ZICO CAST IS1200
Cover	
Alloyed Steel	ZICOCAST 50M to ZICOCAST 70M, ZICOCAST 50L to ZICOCAST 70L, ZICO COVER CAST
Carbon Steel	ZICOCAST 50M to ZICOCAST 70M, ZICOCAST 50L to ZICOCAST 70L, ZICO COVER CAST
Patching Materials	
Ductile Cast Iron	ZICORAM IFSBO2(S) or ZICORAM IFS2
Grey Cast Iron	ZICORAM IFSBO3(S) or ZICORAM IFS3



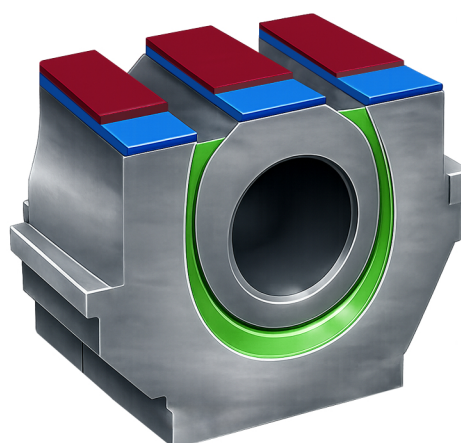
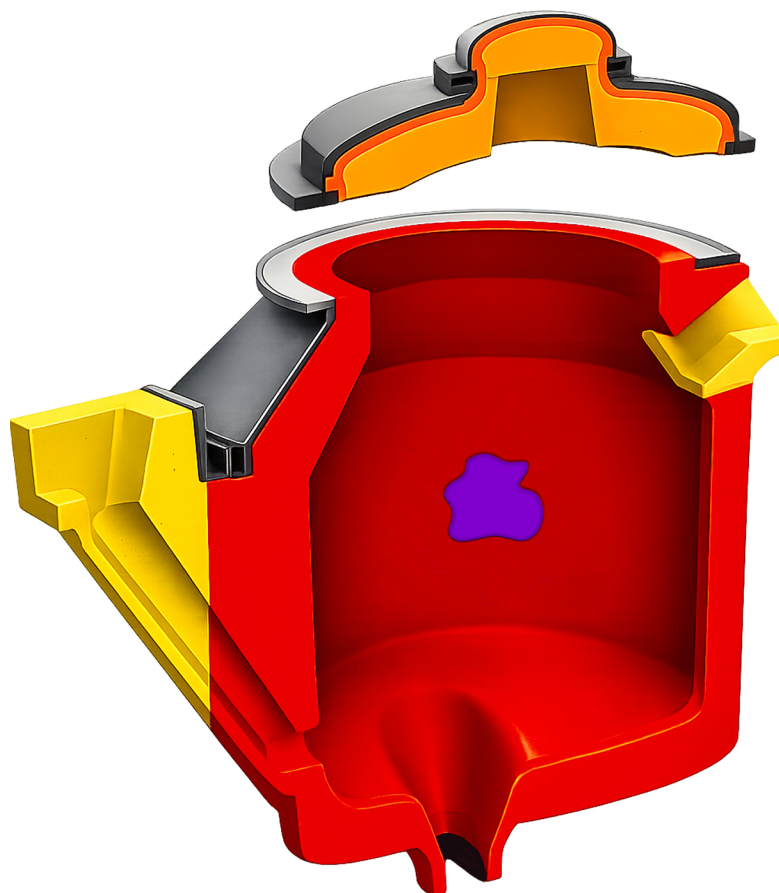
Iron Transport Ladle



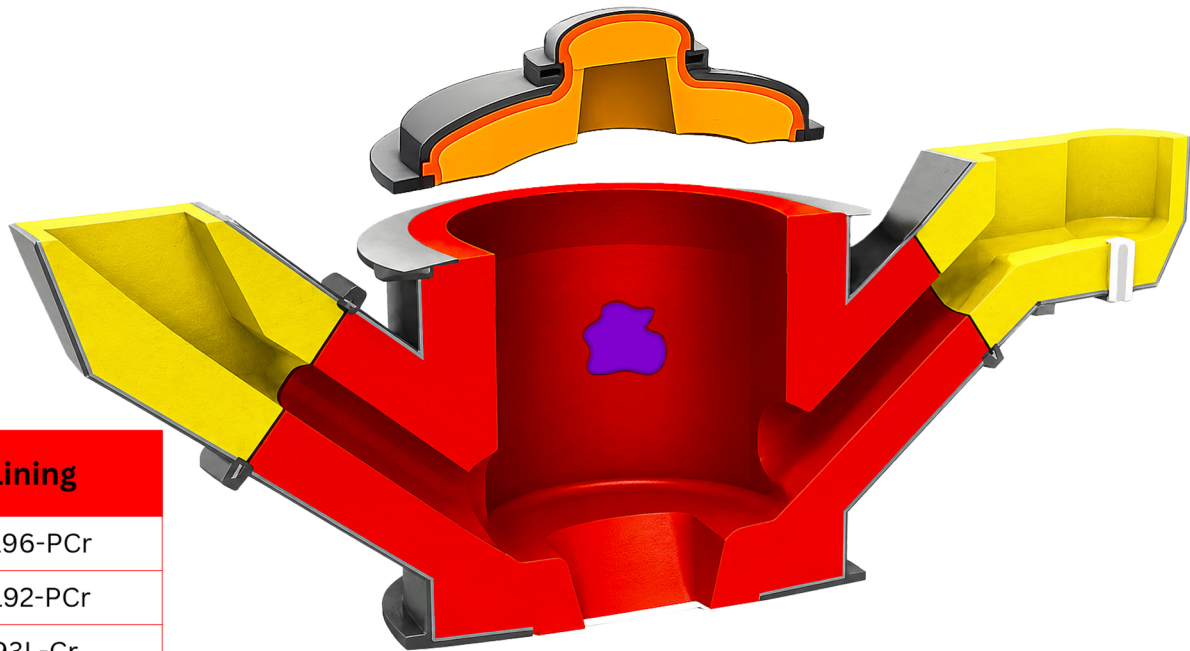
Working Lining & Spout	
Ductile Cast Iron	ZICORAM IFSBO2(S) or ZICORAM IFS2 or ZICOCAST 60M
Grey Cast Iron	ZICORAM IFSBO2(S) or ZICORAM IFS2 or ZICOCAST 50M
Safty Lining	
Ductile Cast Iron	ZICOCAST 60M
Grey Cast Iron	ZICOCAST 50M
Insulating Lining	
Ductile Cast Iron	ZICOCAST IS1000 or ZICOCAST IS1200
Grey Cast Iron	ZICOCAST IS1000 or ZICOCAST IS1200

Holding Furnace

Working Lining
ZICORAM AL96-PCr
ZICORAM AL92-PCr
ZICOCAST 93L-Cr
Inlet , Outlet
ZICOCAST 93L-Cr
Insulating Lining of Cover
ZICO CAST IS1200
Cover
ZICOCAST 55M
ZICOCAST H3
Inductor
ZICORAM MAG85-SP
ZICORAM PATCH SP
Joints1
ZICO MOR 90
ZICO MOR 50
Joints2
ZICO Joint 97Cr
Repair Material
ZICOCAST 93RT-Cr



Pouring Furnace



Working Lining

ZICORAM AL96-PCr

ZICORAM AL92-PCr

ZICOCAST 93L-Cr

Inlet , Outlet

ZICOCAST 93L-Cr

Insulating Lining of Cover

ZICO CAST IS1200

Cover

ZICOCAST 55M

ZICOCAST H3

Inductor

ZICORAM MAG85-SP

ZICORAM PATCH SP

Joints1

ZICO MOR 90

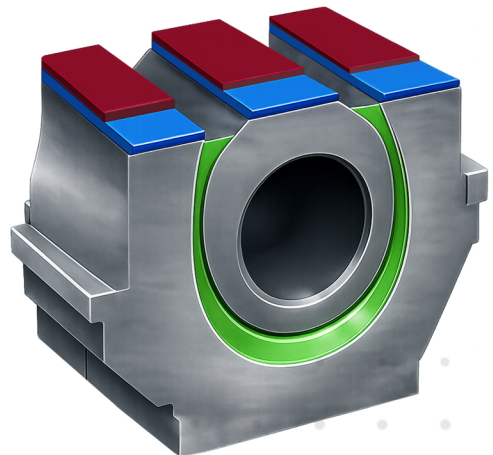
ZICO MOR 50

Joints2

ZICO Joint 97Cr

Repair Material

ZICOCAST 93RT-Cr





FERROSILICON **INDUSTRY**



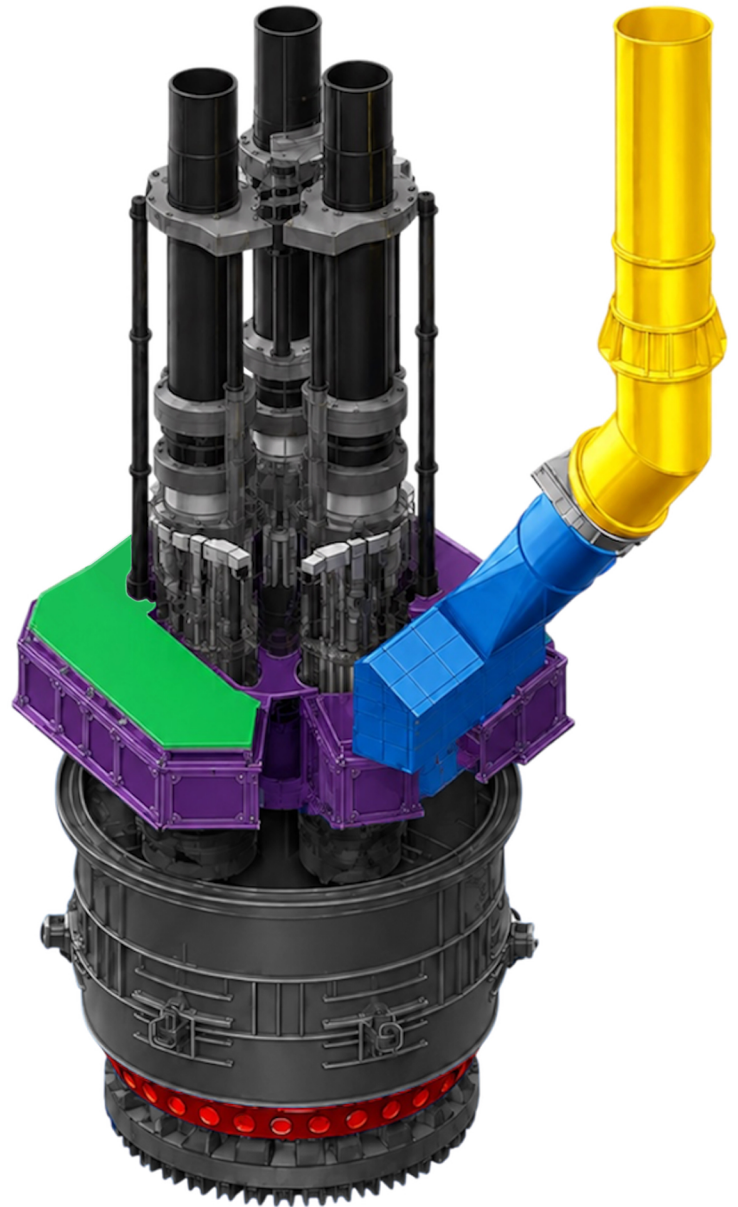
- **Ferrosilicon Industry**

- **Ferrosilicon Arc Furnace**

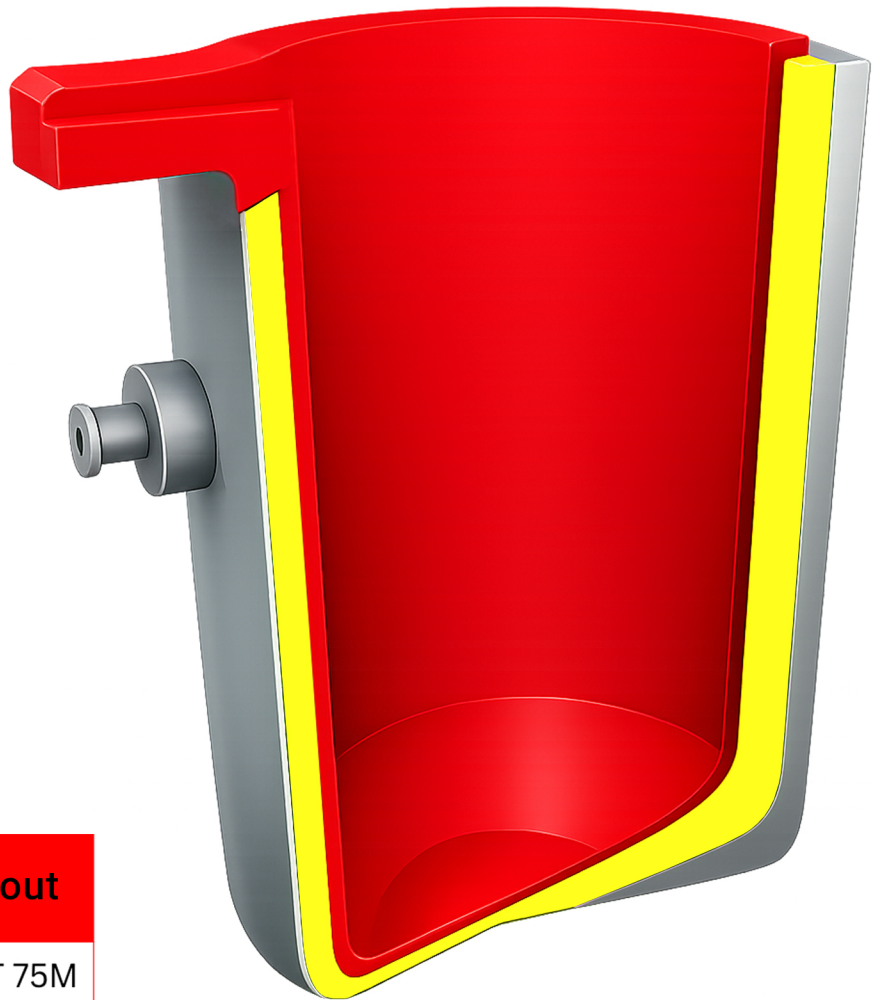
- **Ferrosilicon Transport Ladle**

Ferrosilicon Arc Furnace

Bottom Refractory
ZICOCAST H
ZICOCAST 60M
Side Walls
ZICOCAST 45R
ZICOCAST H
Furnace Roof
ZICOCAST 45R
ZICOCAST H
Smoke Stacks-Lower Part
ZICOCAST ESLI
ZICOCAST IS1200-LI
Smoke Stacks-Upper Part
ZICOCAST ES
ZICOCAST IS1200



Ferrosilicon Transport Ladle



Working Lining & Spout

ZICOCAST H to ZICOCAST 75M

Insulating Lining

ZICOCAST IS1000

ZICOCAST IS1200

Refractory Technical Datasheets



- Ramming Masses
- Low Cement Castable
- Medium Cement Castable
- Regular Cement Castable
 - Grout & Trowelling
 - Insulating Castable
- Mortar & Plastic Ramming

Technical Data

Ramming Masses

Product name	Main raw material	Bonding	Install Method	Required material (t/m3)	Max service T (°C)	Chemical analysis (Average %)					
						Al2O3	SiO2	CaO	Fe2O3	MgO	Cr2O3
ZICORAM AL88	Alumina	Ceramic	R & V	2.9	1800	85-88	<0.5	<0.2	<0.35	12-13	-
ZICORAM AL86	Alumina	Ceramic	R & V	2.9	1800	83-86	<0.5	<0.2	<0.35	13-15	-
ZICO RAM AL84-Cr	Alumina / Chromium oxide	Ceramic	R & V	2.9	1800	82-84	<0.5	<0.2	<0.35	12-13	2.5-3
ZICO RAM AL82-Cr	Alumina / Chromium oxide	Ceramic	R & V	2.9	1800	80-82	<0.5	<0.2	<0.35	12-13	4.5-5
ZICO RAM AL83-Cr	Alumina / Chromium oxide	Ceramic	R & V	2.9	1800	80-83	<0.5	<0.2	<0.36	13-15	2.5-3
ZICO RAM AL81-Cr	Alumina / Chromium oxide	Ceramic	R & V	2.9	1800	78-81	<0.5	<0.2	<0.37	13-15	4.5-5
ZICORAM AL96-PCr	Alumina / Chromium oxide	Ceramic	R & V	2.9	1800	95-97	<0.1	-	<0.3	-	1.5-2
ZICORAM AL92-PCr	Alumina / Chromium oxide	Ceramic	R & V	2.9	1800	91-93	<1	-	<1	-	1.5-2
ZICORAM Mag 84-10	Sintered magnesita	Ceramic	R & V	2.8	1800	9-11	2-3	<1	<1	84-88	-
ZICORAM MAG85- SP	Sintered magnesita	Ceramic	R & V	2.8	1800	12-14	2-3	<1	<1	82-85	-
ZICORAM PATCH SP	Sintered magnesita	Ceramic	R & V	2.75	1800	10-12	2-3	<1	<1	81-84	-
ZICORAM IFS1	Crystalline silica/Boric acid	Ceramic/inorg	R & V	2	1700	1	98<	0.2	<0.5	-	-
ZICORAM IFS2	Crystalline silica/Boric acid	Ceramic/inorg	R & V	2	1600	1	98<	0.2	<0.5	-	-
ZICORAM IFS3	Crystalline silica/Boric acid	Ceramic/inorg	R & V	2	1550	1	98<	0.2	<0.5	-	-
ZICORAM IFS4	Crystalline silica/Boric acid	Ceramic/inorg	R & V	2	1350	1	98<	0.2	<0.5	-	-
ZICORAM IFSBO	Crystalline silica/Boron oxide	Ceramic/inorg	R & V	2	1700	1	98<	0.2	<0.5	-	-
ZICORAM IFSBO(S)	Crystalline silica/Boron oxide	Ceramic/inorg	R & V	2	1700	1	98<	0.2	<0.5	-	-
ZICORAM IFSBO2(S)	Crystalline silica/Boron oxide	Ceramic/inorg	R & V	2	1600	1	98<	0.2	<0.5	-	-
ZICORAM IFSBO3(S)	Crystalline silica/Boron oxide	Ceramic/inorg	R & V	2	1550	1	98<	0.2	<0.5	-	-
ZICORAM IFSBO4(S)	Crystalline silica/Boron oxide	Ceramic/inorg	R & V	2	1350	1	>98	0.2	0.3	-	-

R : Ramming

V : Vibrating



Technical Data

Low Cement Castable

Product name	Main raw material	Bonding	Install Method	Water demand (%)	Required material (t/m3)	CCS 110°C (MPa)	Max service T (°C)	Chemical analysis (Average %)					
								Al2O3	SiO2	CaO	Fe2O3	MgO	Cr2O3
ZICOCAST 97L	Tabular Alumina	Hydraulic	V	5.5-6.5	3	90-120	1800	95-97	1	1-2.5	<0.2	-	-
ZICOCAST 95L-Cr	Tabular Alumina / Chromium oxide	Hydraulic	V	5.5-6.5	2.9	80-110	1800	93-97	<0.5	1-2.5	<0.5	-	2.5-3
ZICOCAST 95L	Tabular Alumina	Hydraulic	V	5.5-6.5	2.9	80-110	1800	94-97	1	1-2.5	0.1	-	-
ZICOCAST 93L-Cr	Tabular Alumina / Chromium oxide	Hydraulic	V	5.5-6	2.9	70-90	1800	91-95	1	1-2.5	<0.5	-	2.5-3
ZICOCAST 93L-Sp	Tabular Alumina/Spinel	Hydraulic	V	6-7	2.9	70-90	1800	91-93	1	1-2.5	<0.3	3-4	-
ZICOCAST 90L-Sp	Tabular Alumina/Spinel	Hydraulic	V	6-7	2.9	70-90	1800	88-92	1	1-2.5	<0.3	5-6	-
ZICOCAST 90L-AN	Tabular Alumina / Andalusite	Hydraulic	V	6-6.5	2.9	70-90	1750	88-92	5-7	1-2.5	<0.5	-	-
ZICOCAST 90L	Tabular Alumina / Bauxite	Hydraulic	V	6-6.5	2.8	70-90	1750	87-91	4-8	1-2.5	<1.5	<0.5	-
ZICOCAST 85L-AN	Tabular Alumina / Andalusite	Hydraulic	V	6-6.5	2.7	70-90	1700	83-87	5-7	1-2.5	<2	<0.5	-
ZICOCAST 85L	Bauxite	Hydraulic	V	6-6.5	2.7	70-90	1700	83-87	5-7	1-2.5	<2	<0.5	-
ZICOCAST 80L-AN	Tabular Alumina / Andalusite	Hydraulic	V	6-6.5	2.6	70-90	1650	78-82	14-16	1-2.5	<1	-	-
ZICOCAST 80L	Bauxite / Fireclay	Hydraulic	V	6-6.5	2.6	70-90	1650	78-82	9-11	1-2.5	<2	<0.5	-
ZICOCAST 70L-AN	Tabular Alumina / Andalusite	Hydraulic	V	6-6.5	2.5	60-80	1600	68-72	25-29	1-2.5	<1	-	-
ZICOCAST 70L	Bauxite / Fireclay	Hydraulic	V	6-6.5	2.5	60-80	1600	68-72	19-22	1-2.5	<2	<0.5	-
ZICOCAST 60L	Bauxite / Fireclay	Hydraulic	V	6-6.5	2.4	60-80	1550	58-62	28-32	1-2.5	<2	<0.5	-
ZICOCAST 55L-AN	Fireclay / Andalusite	Hydraulic	V	6-6.5	2.35	60-80	1500	53-57	38-42	1-2.5	<1.5	<0.5	-
ZICOCAST 55L	Bauxite / Fireclay	Hydraulic	V	6-6.5	2.35	60-80	1500	53-57	33-37	1-2.5	<2	<0.5	-
ZICOCAST 50L-AN	Fireclay / Andalusite	Hydraulic	V	6-6.5	2.3	60-80	1450	48-52	41-45	1-2.5	<1.8	<0.5	-
ZICOCAST 50L	Bauxite / Fireclay	Hydraulic	V	6-6.5	2.3	60-80	1450	48-52	38-42	1-2.5	<2	<0.5	-
ZICOCAST 45L	Fireclay	Hydraulic	V	6-6.5	2.2	60-80	1400	45-48	42-45	1-2.5	<2	<0.5	-

V : Vibrating



Technical Data

Medium Cement Castable

Product name	Main raw material	Bonding	Install Method	Water demand (%)	Required material (t/m ³)	CCS 110°C (MPa)	Max service T (°C)	Chemical analysis (Average %)			
								Al ₂ O ₃	SiO ₂	CaO	Fe ₂ O ₃
ZICOCAST 95M	Tabular Alumina	Hydraulic	v	7-9	2.9	70-90	1800	93-97	<0.5	3-4	<0.2
ZICOCAST 90M-AN	Tabular Alumina / Andalusite	Hydraulic	v	7-9	2.8	70-90	1750	88-92	4-5	3-4	<0.5
ZICOCAST 85M-AN	Tabular Alumina / Andalusite	Hydraulic	v	7-9	2.7	70-90	1700	83-87	8-11	3-4	<0.5
ZICOCAST 85M	Bauxite / Tabular Alumina	Hydraulic	v	7-9	2.7	70-90	1700	83-87	5-7	3-4	<2
ZICOCAST 80M-AN	Tabular Alumina / Andalusite	Hydraulic	v	7-9	2.6	60-80	1650	78-82	12-15	3-4	<1
ZICOCAST 80M	Bauxite / Fireclay	Hydraulic	V	7-9	2.6	60-80	1650	78-82	8-12	3-4	<2
ZICOCAST 70M-AN	Tabular Alumina / Andalusite	Hydraulic	v	7-9	2.5	60-80	1600	68-72	21-25	3-4	<1
ZICOCAST 70M	Bauxite / Fireclay	Hydraulic	V	7-9	2.5	60-80	1600	68-72	18-22	3-4	<2
ZICOCAST 60M	Bauxite / Fireclay	Hydraulic	V	8-10	2.4	50-70	1550	58-62	24-28	3-4	<2
ZICOCAST 55M-AN	Fireclay / Andalusite	Hydraulic	V	8-10	2.3	50-70	1500	53-57	36-40	3-4	<1.5
ZICOCAST 55M	Bauxite / Fireclay	Hydraulic	V	8-10	2.3	50-70	1500	53-57	32-35	3-4	<2
ZICOCAST 50M-AN	Fireclay / Andalusite	Hydraulic	V	8-10	2.2	50-70	1450	48-52	39-43	3-4	<1.8
ZICOCAST 50M	Bauxite / Fireclay	Hydraulic	V	8-10	2.2	50-70	1450	48-52	37-40	3-4	<2
ZICOCAST H	Fireclay	Hydraulic	V	8-10	2.2	50-70	1450	45-50	38-41	3-4	<2
ZICOCAST H1	Fireclay	Hydraulic	V	8-10	2.2	50-70	1450	45-50	39-43	3-4	<2
ZICOCAST H2	Fireclay	Hydraulic	V	8-10	2.2	50-70	1450	44-48	40-44	3-4	<2
ZICOCAST H3	Fireclay	Hydraulic	V	8-10	2.2	50-70	1450	43-47	41-45	3-4	<2

V : Vibrating



Technical Data

Regular Cement Castable

Product name	Main raw material	Bonding	Install Method	Water demand (%)	Required material (t/m ³)	CCS 110°C (MPa)	Max service T (°C)	Chemical analysis (Average %)			
								Al ₂ O ₃	SiO ₂	CaO	Fe ₂ O ₃
ZICOCAST 95R	Tabular Alumina	Hydraulic	V	7-9	3	80-110	1800	93-96	1	4-5	<0.2
ZICOCAST 90R	Tabular Alumina/Bauxite	Hydraulic	V	7-9	2.9	80-110	1750	88-92	2-4	4-5	<1
ZICOCAST 85R	Tabular Alumina/Bauxite	Hydraulic	V	7-9	2.85	80-110	1700	83-87	4-7	4-5	<2
ZICOCAST 80R	Bauxite / Fireclay	Hydraulic	V	7-9	2.75	80-110	1650	78-82	8-11	4-5	<2
ZICOCAST 70R	Bauxite / Fireclay	Hydraulic	V	7-9	2.7	60-90	1600	68-72	16-20	4-5	<2
ZICOCAST 60R	Bauxite / Fireclay	Hydraulic	V	7-9	2.5	50-80	1550	58-62	25-29	4-5	<2
ZICOCAST 55R	Bauxite / Fireclay	Hydraulic	V	7-9	2.4	50-80	1500	53-57	31-34	4-5	<2
ZICOCAST 50R	Bauxite / Fireclay	Hydraulic	V	7-9	2.35	50-80	1450	48-52	35-39	4-5	<2
ZICOCAST 45R	Fireclay	Hydraulic	V	8-10	2.3	50-80	1400	45-49	36-40	4-5	<2.5
ZICOCAST 40R	Fireclay	Hydraulic	V	8-10	2.3	50-80	1400	40-45	42-46	4-5	<2
ZICOCAST ES	Fireclay	Hydraulic	V	11-14	2.2	30-50	1400	40-45	34-37	8-9	5-6

V : Vibrating



Technical Data

Grout & Trowelling

Product name	Main raw material	Bonding	Install Method	Water demand (%)	Required material (t/m3)	CCS 110°C (MPa)	Max service T (°C)	Chemical analysis (Average %)			
								Al2O3	SiO2	CaO	Fe2O3
ZICO GROUT94	Tabular Alumina	Hydraulic	Tr&V	10-12	2.8	50-70	1800	91-95	<2	4-5	<0.2
ZICO GROUT 90	Tabular Alumina / Bauxite	Hydraulic	Tr&V	10-12	2.7	50-70	1750	88-92	2-4	4-5	<0.2
ZICO GROUT85	Tabular Alumina / Bauxite	Hydraulic	Tr&V	9-11	2.6	50-70	1700	83-87	4-7	4-5	<1.5
ZICO GROUT 80	Bauxite / Fireclay	Hydraulic	Tr&V	10-12	2.65	40-60	1650	78-82	7-10	4-5	<2
ZICO GROUT 70	Bauxite / Fireclay	Hydraulic	Tr&V	11-13	2.35	40-60	1600	68-72	15-19	4-5	<2
ZICO GROUT 70 S	Crystalline silica	Hydraulic	Tr&V	13-15	2.1	10-30	1300	10-14	76-80	7-8	<1
ZICO GROUT 50	Fireclay	Hydraulic	Tr&V	13-14	2.1	30-50	1450	48-52	31-35	7-8	<2.5
ZICO GROUT 45	Fireclay	Hydraulic	Tr&V	13-14	2.1	30-50	1400	44-48	38-40	7-8	<2.5
ZICOCAST 90RT-AN	Tabular Alumina / Andalusite	Hydraulic	Tr	9-11	2.7	50-80	1750	88-92	4-6	4-5	<0.5
ZICOCAST 90RT	Tabular Alumina / Bauxite	Hydraulic	Tr	9-12	2.7	50-80	1750	88-92	4-6	4-5	<1
ZICOCAST 85RT	Tabular Alumina / Bauxite	Hydraulic	Tr	9-11	2.6	50-80	1700	83-87	5-7	4-5	<2
ZICOCAST 80RT	Bauxite / Fireclay	Hydraulic	Tr	9-11	2.6	40-70	1650	78-82	8-12	4-5	<2
ZICOCAST 70RT	Bauxite / Fireclay	Hydraulic	Tr	10-12	2.5	40-60	1600	68-72	12-16	4-5	<2
ZICOCAST 60RT	Bauxite / Fireclay	Hydraulic	Tr	10-12	2.4	40-60	1550	58-62	25-29	4-5	<2
ZICOCAST 50RT	Bauxite / Fireclay	Hydraulic	Tr	11-13	2.3	40-60	1500	48-52	35-39	4-5	<2.5
ZICOCAST 45RT	Bauxite / Fireclay	Hydraulic	Tr	11-13	2.2	40-60	1450	43-47	36-40	4-5	<2.5
ZICOCAST ESLI	Fireclay	Hydraulic	Tr	12-14	2.2	30-50	1400	44-47	33-36	9-11	2-3

V : Vibrating
Tr : Trowelling



Technical Data

Insulating Castable

Product name	Main raw material	Bonding	Install Method	Water demand (%)	Required material (t/m3)	CCS 110°C (MPa)	Max service T (°C)	Chemical analysis (Average %)			
								Al2O3	SiO2	CaO	Fe2O3
ZICOCAST IS1600	Fireclay / Perlite	Hydraulic	V	20-30	1.5-1.6	2-5	1200	36-40	37-41	9-11	6-7.5
ZICOCAST IS1600-LI	Fireclay / Perlite	Hydraulic	V	25-35	1.5-1.6	2-5	1250	41-45	37-41	7-9	<3.5
ZICOCAST IS1400	Fireclay / Perlite	Hydraulic	V	20-30	1.3-1.4	2-5	1200	35-39	39-43	8-10	5-6
ZICOCAST IS1400-LI	Fireclay / Perlite	Hydraulic	V	25-35	1.3-1.4	2-5	1250	40-44	38-42	7-9	<3.5
ZICOCAST IS1200	Fireclay / Perlite	Hydraulic	V	30-40	1.1-1.2	2-5	1100	33-37	41-45	8-10	5-6
ZICOCAST IS1200-LI	Fireclay / Perlite	Hydraulic	V	35-45	1.1-1.2	2-5	1200	38-42	40-44	7-9	<3
ZICOCAST IS1100	Fireclay / Perlite	Hydraulic	V	30-40	1-1.1	2-5	1100	32-36	43-47	8-10	5-6
ZICOCAST IS1100-LI	Fireclay / Perlite	Hydraulic	V	35-45	1-1.1	2-5	1200	37-41	42-46	7-9	<3
ZICOCAST IS1000	Fireclay / Perlite	Hydraulic	V	35-45	0.9-1	2-5	1000	30-34	44-48	8-10	5-6
ZICOCAST IS1000-LI	Fireclay / Perlite	Hydraulic	V	40-50	0.9-1	2-5	1200	36-40	43-47	7-9	<3
ZICOCAST IS800	Fireclay / Perlite	Hydraulic	V	40-50	0.7-0.8	2-5	1000	29-33	46-50	8-10	5-6
ZICOCAST IS800-LI	Fireclay / Perlite	Hydraulic	V	45-55	0.7-0.8	2-5	1200	35-39	45-49	7-9	<3

V : Vibrating



Technical Data

Mortar

Product name	Main raw material	Bonding	Install Method	Water demand (%)	Required material (t/m3)	CCS 110°C (MPa)	Max service T (°C)	Chemical analysis (Average %)					
								Al2O3	SiO2	CaO	Fe2O3	MgO	Cr2O3
ZICO MOR 90	Tabular Alumina	Ceramic	Tr	12-14	-	-	1750	87-91	5-9	-	<0.4	-	-
ZICOMOR 80	Tabular Alumina / Bauxite	Ceramic	Tr	20-22	-	-	1650	77-81	10-14	-	<1.5	-	-
ZICOMOR 70	Bauxite / Fireclay	Ceramic	Tr	21-23	-	-	1600	68-72	16-20	-	<2	-	-
ZICOMOR 60	Bauxite / Fireclay	Ceramic	Tr	25-27	-	-	1550	58-62	25-28	-	<2.5	-	-
ZICOMOR 50	Fireclay	Ceramic	Tr	26-28	-	-	1450	47-51	33-37	-	<2.5	-	-
ZICOMOR 40	Fireclay	Ceramic	Tr	26-28	-	-	1400	38-42	41-45	-	<2.5	-	-
ZICOMOR SG	Tabular Alumina / Chromium oxide	Ceramic	Tr	18-22	-	-	1750	90	5	-	<0.2	-	4
ZICO Joint Cr	Chromium Oxide	Ceramic	Tr	18.5-20.5	-	-	1800	0.1	-	-	0.1	-	97

Tr : Trowelling

Plast

Product name	Main raw material	Bonding	Install Method	Water demand (%)	Required material (t/m3)	CCS 110°C (MPa)	Max service T (°C)	Chemical analysis (Average %)				
								Al2O3	SiO2	CaO	Fe2O3	P2O5
ZICO PLAST 80	Tabular/Bauxite	Chemical	R	7-9	2.5-2.7	10-30	1650	78-80	12-16	<0.5	<1.5	4-5
ZICO PLAST 70-AN	Tabular/Andalusite	Chemical	R	5-6	2.4-2.6	10-30	1600	68-72	22-26	<0.5	<1	2-3
ZICO PLAST 70	Bauxite/Fireclay	Chemical	R	5.5-6	2.4-2.6	10-30	1600	68-72	18-22	<0.5	<2	2-3

R : Ramming





— a member of —



IRAN OFFICE

No.9, 7th Floor, Lidoma Center
Sanat Square, Shahrak-e Gharb
Tehran, Iran



SPAIN OFFICE

Carretera Fuencarral a Alcobendas 14
Portal C-BE
Madrid, Spain



FACTORY

No.217, South Mehr Alley
Negarestan Blvd
Shams-Abad Industrial Park
Tehran, Iran



TELL

(+98) 21 57495000



E-MAIL

Zobiran.zico@gmail.com

WEBSITE



WWW.ZICOREF.COM

INSTAGRAM



ZICOREF.CO