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JK REFRACTORY

REFRACTORY SOLUTIONS FOR A
TOUGHER TOMORROW

WANKANER,
GUJARAT



Refractory Solutions for a Tougher Tomorrow

YOUR PARTNER IN HIGH-PERFORMANCE REFRACTORY PRODUCTS ACROSS INDIA & BEYOND.

WHO WE ARE

JK REFRACTORY IS A TRUSTED SUPPLIER OF HIGH-PERFORMANCE REFRACTORY MATERIALS LIKE FIRE BRICKS, INSULATION BRICKS, CASTABLES, AND CERAMIC FIBERS TAILORED FOR EXTREME HEAT ENVIRONMENTS. BASED IN WANKANER, GUJARAT INDIA'S REFRACTORY HEARTLAND WE SERVE INDUSTRIES ACROSS THE COUNTRY AND GLOBALLY, DELIVERING QUALITY, DURABILITY, AND TECHNICAL PRECISION.

WHAT WE OFFER

- FIRE BRICKS (AL2O3 30–90%)
- INSULATION BRICKS
- REFRACTORY CASTABLES & MORTARS
- CERAMIC FIBER PRODUCTS
- MAGNESIA CARBON BRICKS
- CUSTOM SHAPES BASED ON DRAWINGS

WE ALSO OFFER COMPLETE REFRACTORY SOLUTIONS, INCLUDING DESIGN CONSULTATION AND PRODUCT CUSTOMIZATION.

JK REFRACTORY – ALUMINA BRICKS PRODUCT SPECIFICATIONS

Brand Name	Al ₂ O ₃ (%)	Fe ₂ O ₃ (%)	A.P. (%)	B.D. (gm/cc)	CCS (kg/cm ²)	PLC (%)	PCE (SK)	RUL (°C)	Best Application Area
JK 30	≥ 30.0	≤ 1.80	≤ 21.0	≥ 2.00	≥ 250	±0.8	27	1350	Back-up lining
JK 42L	36 – 40	≤ 2.50	≤ 18.0	≥ 2.15	≥ 250	-	28	1350	Rolling mill & coke oven
JK 42D	≥ 42	≤ 1.80	≤ 18.0	≥ 2.22	≥ 400	-1	31	1430	Blast furnace
JK 45D	≥ 45.0	≤ 1.80	≤ 18.0	≥ 2.25	≥ 450	-1	33	1460	Blast furnace
JK HiAl 50	≥ 50.0	≤ 1.6	≤ 18.0	≥ 2.30	≥ 400	-	34	1450	BF, COP, Glass Furnance & Other Applications
JK 55S	53 – 55	≤ 2.10	≤ 22.0	≥ 2.30	≥ 450	-1	34	1480	Rolling mill, power plants
JK HiAl 60	58 – 61	≤ 1.20	≤ 18.0	≥ 2.50	≥ 500	-1	36	1600	BF, COP, Glass Furnance & Other Applications
JK 62 (SPL)	≥ 60.0	≤ 2.0	≤ 22.0	≥ 2.40	≥ 500	-1	36	1500	Lead furnace
JK 70R	65 – 71	NA	≤ 22.0	≥ 2.55	≥ 500	3	35	1450	Re-heating furnace
JK 70 B (G)	65 – 71	2.9 – 3.4	≤ 22.0	≥ 2.55	≥ 450	< +3.0	36	1440	Rotary kiln, small ladle



JK REFRACTORY – CASTABLES & MORTARS PRODUCT SPECIFICATIONS

Brand Name	Al ₂ O ₃ (%)	Fe ₂ O ₃ (%)	B.D. (gm/cc)	Cold Crushing Strength (kg/cm ²)	PCE (SK)	Grain Size (mm)	Description / Application
JK HGM	≥ 33	≤ 2.5	≥ 2.10	≥ 300 (110°C), ≥ 420 (1400°C)	≥ 32	≤ 0.5	General-purpose mortar
JK 45M	≥ 42	≤ 2.0	≥ 2.10	≥ 300	≥ 33	≤ 0.5	Moderate-duty castable
JK 50M	≥ 48	≤ 2.0	≥ 2.15	≥ 320	≥ 34	≤ 0.5	Medium alumina castable
JK 50N	≥ 50	≤ 2.0	≥ 2.20	≥ 350	≥ 34	≤ 1.0	High-alumina castable
JK 70M	≥ 70	≤ 2.0	≥ 2.30	≥ 500	≥ 35	≤ 0.5	Premium high-alumina castable
JK 80M	≥ 80	≤ 2.5	≥ 2.40	≥ 550	≥ 36	≤ 0.5	Ultra high-temp performance
JK 85M	≥ 85	≤ 2.0	≥ 2.50	≥ 600	≥ 36	≤ 0.5	Steel ladle lining
JK Cast AH 50 (G)	47 – 50	1.7 – 2.2	≥ 2.10	≥ 300 (110°C), ≥ 400 (1400°C)	-	≤ 5	Acid-resistant castable
JK Cast AH 60 (G)	57 – 60	1.5 – 2.0	≥ 2.15	≥ 300 (110°C), ≥ 400 (1400°C)	-	≤ 5	General-purpose gunning mix



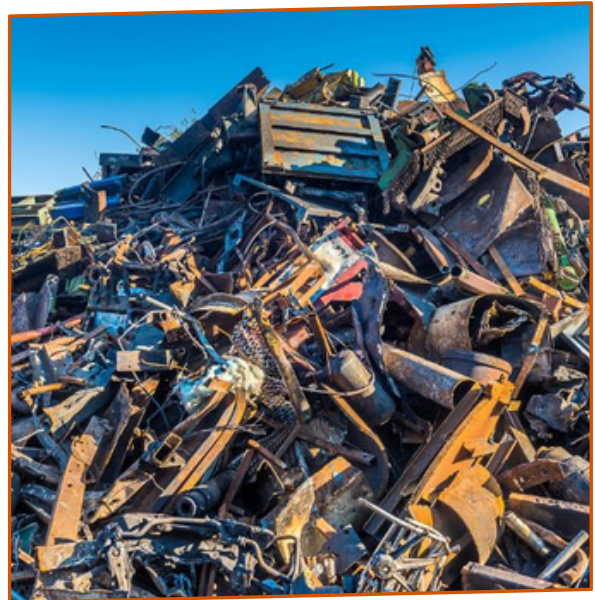
JK REFRACTORY – CASTABLES & MORTARS PRODUCT SPECIFICATIONS

Brand Name	Al ₂ O ₃ (%)	Fe ₂ O ₃ (%)	B.D. (gm/cc)	Cold Crushing Strength (kg/cm ²)	PCE (SK)	Grain Size (mm)	Description / Application
JK Cast AH 90 (G)	78 – 84	1.5 – 2.0	≥ 2.60	≥ 550 (110°C), ≥ 550 (1500°C)	-	≤ 5	Ultra high alumina castable
JK Cast BG	30 – 35	2.0 – 3.0	1.8 – 2.0	150–250	-	≤ 5	Low-density gunning castable
JK Cast FH – 14	≥ 40	≤ 2.5	≥ 2.10	≥ 250, ≥ 350 (fired)	-	≤ 5	Furnace hearth lining
JK Cast FH – 45(R)	40 – 45	2 – 3	1.8 – 2.0	150–250	-	≤ 5	General maintenance castable
JK Cast FH – 70(R)	58 – 62	2.2 – 2.5	≥ 2.30	≥ 200	-	≤ 5	Rotary kiln patching
JK Cast LC 45	≥ 45	≤ 1.5	≥ 2.20	≥ 700	≥ 1000	≤ 5	Low cement castable
JK Cast LC 50	≥ 50	≤ 1.5	≥ 2.30	≥ 700	≥ 1000	≤ 5	Low cement, high performance
JK Cast LC 60	≥ 60	≤ 1.5	≥ 2.40	≥ 700	≥ 1000	≤ 5	Premium low cement castable
JK Incast 7	≥ 25	≤ 5	≤ 0.85	≥ 15	-	≤ 5	Insulating castable (light)
JK Incast 9	≥ 25	≤ 4	≤ 1.10	≥ 20	-	≤ 5	Insulating castable (medium)
JK Incast 11	≥ 35	≤ 4	≤ 1.30	≥ 40	-	≤ 5	Insulating castable (dense)



INDUSTRIES WE SERVE

- IRON & STEEL: BLAST FURNACES, CONVERTERS, LADLES
- GLASS: MELTING TANKS, REGENERATORS
- CEMENT & LIME: ROTARY KILNS, PRE-HEATERS
- COPPER & ALUMINA: SMELTERS, DIGESTERS
- POWER PLANTS: BOILERS, FLUE GAS DUCTS
- FOUNDRIES & SCRAPPING: CORELESS FURNACES, LADLES, PITS



ALUMINA REQUIREMENTS ACROSS INDUSTRIES

Industry	Typical Alumina % Range	Common Refractory Types Used
Iron & Steel	45% – 70%	High Alumina Bricks, Magnesite Bricks
Glass	50% – 70%	Silica Bricks, Alumina-Silica Bricks
Cement & Lime	40% – 65%	Fireclay Bricks, High Alumina Bricks
Copper & Alumina	60% – 85%	Castables, Special Alumina Bricks
Power Plants	45% – 60%	Insulating Castables, Alumina Bricks
Foundries & Scrapping	30% – 50%	Fireclay Bricks, Magnesite Carbon Bricks

WHY CHOOSE JK REFRACTORY

- TECHNICAL CONSULTATION
- RELIABLE SUPPLY CHAIN & TIMELY DISPATCH
- CUSTOM SHAPES & SIZES
- ISO STANDARD COMPLIANCE
- 35+ YEARS OF INDUSTRY EXPERIENCE
- TRUST & SERVICE



Jyoti Mohanty

Managing Partner



35+ years in refractories have taught me one thing
trust matters more than anything.

Having led Gujarat operations at TRL Krosaki for
over 15 years, I now focus on ensuring every JK
Refractory client gets materials that perform,
support they can rely on, and honest advice they
can trust.





Kaushik Mohanty

Partner – Strategy & Marketing



I chose this business because refractories are the silent backbone of industry.

My mission is simple: to make refractory supply reliable, affordable, and stress-free so you can focus on growth while we take care of your heat-resistant needs.





WhatsApp Us!



REFRACTORY SOLUTIONS FOR A TOUGHER TOMORROW

AT JK REFRACTORY & CONSULTANCY, WE BELIEVE EVERY FURNACE DESERVES
RELIABLE, LONG-LASTING MATERIALS.

OUR MISSION IS SIMPLE TO HELP INDUSTRIES REDUCE DOWNTIME, CUT COSTS, AND
RUN OPERATIONS WITH CONFIDENCE.



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