



DEEP JYOTI REFACTORIES

REFRACTORY SOLUTIONS FOR
TOUGHER **TOMORROW**





DEEP JYOTI REFRATORIES

Refractory Solutions for a Tougher Tomorrow

**Your Partner in High - Performance
Refractory Products Across India & Beyond.**

WHO WE ARE

Deep Jyoti Refractories 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.



DEEP JYOTI REFRACTORIES

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
DEEP 30	≥ 30.0	≤ 1.80	≤ 21.0	≥ 2.00	≥ 250	± 0.8	27	1350	Back-up Lining
DEEP 42L	36-40	≤ 2.50	≤ 18.0	≥ 2.15	≥ 250	-	28	1350	Rolling Mill & Coke Oven
DEEP 42D	≥ 42	≤ 1.80	≤ 18.0	≥ 2.12	≥ 400	-1	31	1430	Blast Furnace
DEEP 45D	≥ 42	≤ 1.80	≤ 18.0	≥ 2.12	≥ 400	-1	31	1430	Blast Furnace
DEEP HiAl 50	≥ 50.0	≤ 1.6	≤ 18.0	≥ 2.30	≥ 400	-	34	1450	BF, COP, Glass Furnance & Other Applications
DEEP 55S	53 - 55	≤ 2.10	≤ 22.0	≥ 2.30	≥ 450	-1	34	1480	Rolling Mill, Power Plants
DEEP HiAl 60	58 - 61	≤ 1.20	≤ 18.0	≥ 2.50	≥ 500	-1	36	1600	BF, COP, Glass Furnance & Other Applications
DEEP 62 (SPL)	≥ 60.0	≤ 2.0	≤ 22.0	≥ 2.40	≥ 500	-1	36	1500	Lead furnace
DEEP 70R	65 - 71	NA	≤ 22.0	≥ 22.55	≥ 500	3	35	1450	Re-heating Furnace
DEEP 70B (G)	65 - 71	2.9 - 3.4	≤ 22.0	≥ 2.55	≥ 450	< +3.0	36	1440	Rotary Kiln, Small Ladle



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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
DEEP HGM	≥ 33	≤ 2.5	≤ 2.10	≥ 300 (110°C). ≥ 420(1400°C)	≥ 32	≤ 0.5	General Purpose Mortar
DEEP 45M	≥ 42	≤ 2.0	≥ 2.10	≥ 300	≥ 33	≤ 0.5	Moderate Duty Castable
DEEP 50M	≥ 48	≤ 2.0	≥ 2.15	≥ 320	≥ 34	≤ 0.5	Medium Alumina Castable
DEEP 50N	≥ 50	≤ 2.0	≥ 2.20	≥ 350	≥ 34	≤ 1.0	High Alumina Castable
DEEP 70M	≥ 70	≤ 2.0	≥ 2.30	≥ 500	≥ 35	≤ 0.5	Premium High Alumina Castable
DEEP 80M	≥ 80	≤ 2.5	≥ 2.40	≥ 550	≥ 36	≤ 0.5	Ultra High Temp Performance
DEEP 85M	≥ 85	≤ 2.0	≥ 2.50	≥ 600	≥ 36	≤ 0.5	Steel Ladle Lining
DEEP CAST AH 50 (G)	47 - 50	1.7 - 2.2	≥ 2.10	≥ 300(110°C). ≥ 400(1400°C)	-	≤ 5	Acid - Resistant Castable
DEEP CAST AH 60 (G)	57 - 60	1.5 - 2.0	≥ 2.15	≥ 300(110°C). ≥ 400(1400°C)	-	≤ 5	General Purpose Gunning Mix



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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
DEEP CAST AH 90 (G)	78 - 84	1.5 - 2.0	≥ 2.60	≥ 550 (110°C). ≥ 550(1500°C)	-	≤ 5	Ultra High Alumina Castable
DEEP CAST BG	30 - 35	2.0 - 3.0	≥ 1.8 - 2.0	150 - 250	-	≤ 5	Low-Density Gunning Castable
DEEP CAST FH - 14	≥ 40	≤ 2.5	≥ 2.10	≥ 250, ≥ 350 (Fired)	-	≤ 5	Furnace Hearth Lining
DEEP CAST FH-45 (R)	40 - 45	2 - 3	1.8 - 2.0	150 - 250	-	≤ 5	General Maintenance Castable
DEEP CAST FH - 70 (R)	58 - 62	2.2 - 2.5	≥ 2.30	≥ 200	-	≤ 5	Rotary Kiln Patching
DEEP CAST LC 45	≥ 45	≤ 1.5	≥ 2.20	≥ 700	≥ 1000	≤ 5	Low Cement Castable
DEEP CAST LC 50	≥ 50	≤ 1.5	≥ 2.30	≥ 700	≥ 1000	≤ 5	Low Cement High Performance
DEEP CAST LC 60	≥ 60	≤ 1.5	≥ 2.40	≥ 700	≥ 1000	≤ 5	Premium Low Cement Castable
DEEP INCAST 7	≥ 25	≤ 5	≥ 0.85	≥ 15	-	≤ 5	Insulating Castable (light)
DEEP INCAST 9	≥ 25	≤ 4	≥ 1.10	≥ 20	-	≤ 5	Insulating Castable (Medium)
DEEP 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



INDUSTRY	TYPICAL ALUMINA % RANGE	COMMON REFRACTORY TYPES USED
Iron & Steel	45% - 70%	High Alumina Bricks, Magnesia 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, Magnesia Carbon Bricks

WHY CHOOSE DEEP JYOTI RE

- Technical Consultation
- Reliable Supply Chain & Timely Dispatch
- Custom Shapes & Sizes
- ISO Standard Compliance
- 35+ Years of Industry Experience
- Trust & Service



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At Deep Jyoti Refractories & 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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