SMC

SUHANI METACAST PVT. LTD.



MANUFACTURERS OF

HIGH CHROME

GRINDING MEDIA
BALLS & WEAR-
RESISTANT CASTINGS

ISO 9001:2015
ISO 14001:2015
CERTIFIED

ADVANCED
MANUFACTURING

GLOBAL EXPORT
QUALITY
AUTHORISED WITH
(SGS, TUV, BUREAU
VERITAS)

MADE IN INDIA
SELF-RELIANT INDIA

WHO WE ARE

- Suhani Metacast is an Indian manufacturer of High Chrome and Hyper Steel Grinding Media Balls and Cylpebs.
- Established in 1997
- Serving demanding grinding applications across cement, mining, thermal power and mineral processing industries.



BUILT FOR DEMANDING GRINDING APPLICATIONS

29+ YEARS OF MANUFACTURING EXPERIENCE

- Established in 1997
- Decades of metallurgical manufacturing experience

QUALITY-CONTROL LED PRODUCTION

- Chemical Inspection
- Hardness Testing
- Microstructure Analysis
- Dimensional Inspection

17 MM–125 MM PRODUCT RANGE

ADVANCED MANUFACTURING FACILITY

- New DISA HPML C3-250 line
- Annual production capacity exceeding +18,000 MT
- 3 production units operational in Jaipur

QUALITY COMPLIANCE

- ISO 9001:2015
- Quality Management
- ISO 14001:2015
- Environmental Management

GLOBAL MARKET PRESENCE

SECTORS WE SERVE

CEMENT



MINING



THERMAL POWER



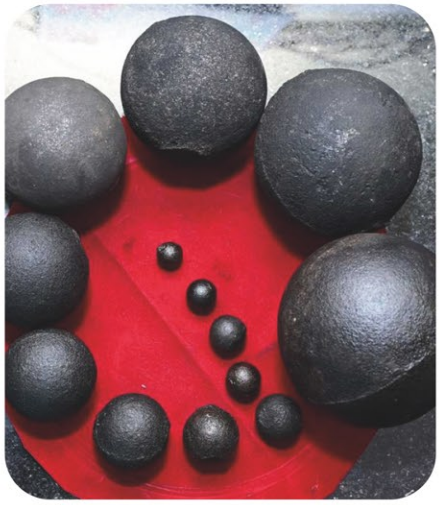
VISION

- Become the world's leading Grinding Media solution provider
- Build a future-ready manufacturing powerhouse
- Advance automation and manufacturing excellence
- Maintain a relentless commitment to quality and growth

HIGH-CHROME STEEL GRINDING MEDIA BALLS

Engineered for superior wear resistance, consistent hardness and extended service life.

Our High Chrome Grinding Media is designed for demanding grinding applications where abrasion resistance, hardness and product consistency directly impact operating efficiency.







KEY FEATURES

- High wear resistance
- Consistent hardness
- Controlled chemical composition
- Optimized microstructure
- Engineered for low wear rate
- Reliable grinding performance
- Available in multiple sizes and grades

SMC 12:
Cr 10–14%

Balanced performance and wear resistance

SMC 15:
Cr 14–16%

Enhanced wear resistance for demanding grinding conditions.

SMC 18:
Cr 16–20%

High chromium content for superior abrasion resistance and extended service life.

Parameter	Specification
Product	High Chrome Grinding Media Balls
Chromium Range	10% – 20% Cr
Hardness	HRC 55 – 65+
Size Range	17 mm – 125 mm
Microstructure	M+A+C
Applications	Cement, Mining & Thermal

High-Chrome Steel Cast Grinding Media Balls (SMC) Chemical Composition (%)

C (%)	Si (%)	Mn (%)	Cr (%)	P (%)	S (%)	Mo (%)	Ni (%)
2.0–3.5	0.3–1.0	0.3–1.0	10.0–20.0	≤ 0.06	≤ 0.06	0.5 (Max)	0.5 (Max)

HYPER STEEL GRINDING MEDIA BALLS

Strength, toughness and wear performance for demanding grinding environments.

Hyper Steel Grinding Media is designed for applications where a combination of toughness, impact resistance and wear performance is required.







KEY FEATURES

- High impact resistance
- Good toughness
- Reliable wear performance
- Consistent product quality
- Suitable for demanding milling conditions
- Available in customised grades and sizes

Parameter	Specification
Product	Hyper Steel Grinding Media Balls
Available Size	17 mm – 125 mm
Hardness	>375 BHN
Applications	Cement, Mining & Mineral processing

BALL TOLERANCE

Ball Diameter	Tolerance
60 mm & above	±2.50 mm
30–50 mm	±2.00 mm
17–25 mm	±1.50 mm

Hyper Steel Cast Grinding Media Ball (SMC) Chemical Composition (%)

C (%)	Si (%)	Mn (%)	Cr (%)	P (%)	S (%)
1.25-1.90	1.0 (Max)	1.20-1.50	1.5-2.5	≤ 0.06	≤ 0.06

OTHER CASTING PRODUCTS



LINERS



GRINDING CYLPEBS



MILL DIAPHRAGM

MANUFACTURING CAPABILITY

Suhani Metacast has three state of the art manufacturing facilities in Jaipur. DISA C3-250 is the new High Pressure Moulding Line inducted in our facility making our annual output to reach +18,000MT.



Our manufacturing process focuses on maintaining control across critical stages:

PROCESS FLOW

Process	Quality Control
Raw Material	Sourced only from qualified suppliers; every batch undergoes rigorous inspection against internal specifications.
Melting & Casting	Induction furnaces and automated casting lines ensure accuracy; each batch is weighed, tracked and inspected.
Heat Treatment	Advanced automated systems deliver optimum hardness and a uniform micro structure in every piece.
Spectro & Testing	Spectrometer, microstructure analyser and hardness tester verify chemical composition and physical properties.
Experienced Workforce	Technical staff with decades of experience oversee operations, ensuring flawless execution and continual improvement.

Quality Testing Facility available

SPECTROMETER



MICROSTRUCTURE ANALYZER



HARDNESS TESTING MACHINE

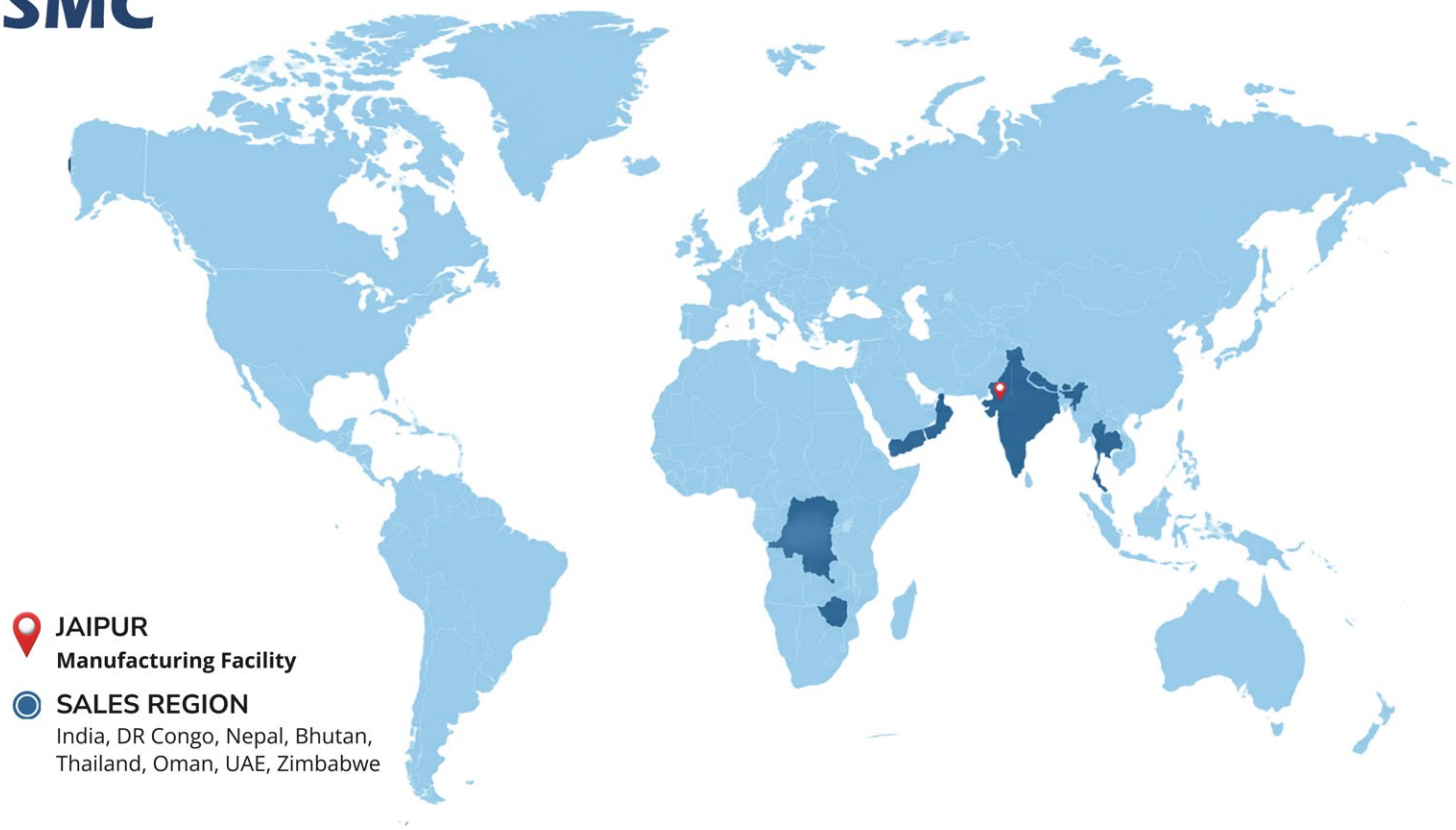


XRF GUN



Every stage of manufacturing is supported by systematic inspection and testing to ensure that products meet defined chemical, mechanical and dimensional requirements.

SMC



JAIPUR
Manufacturing Facility

SALES REGION
India, DR Congo, Nepal, Bhutan, Thailand, Oman, UAE, Zimbabwe

SUHANI METACAST PVT. LTD.

LEADING MANUFACTURERS OF HIGH-CHROME AND HYPER STEEL GRINDING MEDIA BALLS AND CYLPEBS

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