

Product Data Sheet

Pig Iron — SG / Nodular Grade

Description

Description	SG (spheroidal graphite) / nodular grade pig iron is a low-manganese, low-sulphur, low-phosphorus iron produced in Indian blast furnaces. Its low residual chemistry ensures reliable magnesium nodularisation in ductile iron production.
Applications	Used in ductile (SG) iron production, including ISO 2531 ductile iron pipes and castings requiring reliable nodularisation.
Used In	Ductile iron, ISO 2531 pipes, SG castings
Physical Form	All grades are commercially available from Indian blast furnace plants. Physical form: ingots / pigs of approximately 5–8 kg each, standard Indian pig size approximately 140mm × 140mm × 70mm.

Key Benefits

- Low Mn (<0.3%), S (<0.03%), P (<0.06%)
- Ensures reliable magnesium nodularisation
- Suited to ductile iron (ISO 2531 pipes)
- Low residual elements for SG iron
- Consistent blast-furnace chemistry

Chemical Analysis & Physical Data

Target Chemistry

Element	Target Chemistry
Manganese (Mn)	< 0.3%
Sulphur (S)	< 0.03%
Phosphorus (P)	< 0.06%
Carbon (C)	3.5 – 4.5% (typical)
Silicon (Si)	Per requirement (typical)

Physical Properties

Property	Specification
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Physical Form	Ingots / pigs (approx. 5–8 kg each)
Pig Size	Approx. 140 × 140 × 70 mm
Process Suitability	Ductile iron (ISO 2531 pipes)
Advantage	Ensures reliable magnesium nodularisation
Origin	India (blast furnace)

* Target chemistry; varies by heat / lot. Test methods and heat-wise COA available upon request.

Packaging

- Loose ingots / pigs in bulk (approx. 5–8 kg each)
- Standard Indian pig size approx. 140mm × 140mm × 70mm
- Bundled / strapped or loose for container loading
- Custom packaging available on request.

Storage & Handling

- Store in a dry, covered area to minimise surface rusting
- Stack on level ground; avoid handling injuries from heavy ingots
- Keep dry to preserve surface condition
- Use appropriate lifting equipment and PPE when handling

Disclaimer: The information provided in this document is based on our current knowledge and is intended as a general guide. Chemistry varies by heat / lot; figures are target ranges. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications.