OCHNOLOGY SOLUTION PVT. LTD
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Product Data Sheet

Pig Iron — Foundry Grade (FG1–FG4)

Description

Description	Foundry grade pig iron (FG1–FG4) is a high-carbon, graded-silicon iron produced in Indian blast furnaces, used as a primary charge material in grey iron casting. The graded silicon content controls graphite morphology and machinability in the final casting.
Applications	Used in grey iron foundries, cupola and induction furnace melting, and grey iron castings where controlled silicon and carbon are required.
Used In	Grey iron foundries, cupola, induction melting
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

- Graded silicon (FG1–FG4) controls graphite morphology
- High carbon (3.5–4.5%) for grey iron casting
- Suitable for cupola and induction melting
- Consistent blast-furnace chemistry
- Standard Indian pig form (approx. 5–8 kg)

Chemical Analysis & Physical Data

Target Chemistry

Element	Target Chemistry
Carbon (C)	3.5 – 4.5%
Silicon (Si)	1.25 – 3.50% (graded FG1–FG4)
Manganese (Mn)	0.50 – 1.00%
Sulphur (S)	Low (typical)
Phosphorus (P)	Low (typical)

Physical Properties

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Property	Specification
Physical Form	Ingots / pigs (approx. 5–8 kg each)
Pig Size	Approx. 140 × 140 × 70 mm
Process Suitability	Grey iron foundries, cupola, induction
Advantage	Silicon determines graphite morphology
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