

Product Data Sheet

Basic Pig Iron

Description

Description	Basic pig iron is a high-carbon iron produced in Indian blast furnaces, used as a clean iron substitute for scrap in steelmaking. Its low residual elements and consistent chemistry make it a reliable charge material for electric arc and induction furnace steelmaking.
Applications	Used in steelmaking via electric arc furnace (EAF) and induction furnace (IF) as a clean iron charge substitute for scrap.
Used In	Steelmaking (EAF / IF), clean charge material
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

- Clean iron substitute for scrap charge
- High carbon (3.5–4.5%) for steelmaking
- Controlled Mn (<1.00%) and P (<0.15%)
- Low residual elements vs. scrap
- Consistent blast-furnace chemistry

Chemical Analysis & Physical Data

Target Chemistry

Element	Target Chemistry
Carbon (C)	3.5 – 4.5%
Silicon (Si)	< 1.00%
Manganese (Mn)	< 1.00%
Phosphorus (P)	< 0.15%
Sulphur (S)	Low (typical)

Physical Properties

Property	Specification
Physical Form	Ingots / pigs (approx. 5–8 kg each)
Pig Size	Approx. 140 × 140 × 70 mm
Process Suitability	Steelmaking (EAF / IF)
Advantage	Clean iron substitute for scrap charge
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.