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Stable Material / Reliable Chemistry

Ferro Pellet (DRI Process) for Green Steel Hydrogen/Natural Gas.

Product Sheet

Product Name: Ferro Pellet

Iron Content: 70–72% Fe

Source : Iron-Rich Alumina Residue (Bauxite Residue)

Physical Form: Industrial Steel Production Grade

Color: Homogeneous Dark Red-Brown

Origin: India.

Seller: Noval India (Neonel Eco Minerals)

Packaging Options: 50 kg bags / 20foot container / Bulk shipment (customisable on request)

Storage Instructions: Store in a cool, dry, and well-ventilated area. Keep pellets sealed in moisture-proof packaging to maintain $\leq 0.8\%$ moisture content and prevent oxidation.

Product Spec

Parameter	MID Grade Specification
Total Iron (Fe)	70–71%
$\text{SiO}_2 + \text{Al}_2\text{O}_3$	$\leq 1.0\%$ combined
Phosphorus (P_2O_5)	$\leq 0.005\%$
Sulfur (S)	$\leq 0.004\%$
TiO_2	$\leq 0.08\%$

CaO	$\leq 1.0\%$
MgO	$\leq 0.4\%$
Cu (trace)	$\leq 0.004\%$
Particle Size	7-15mm
Cold-Crushing Strength	$\geq 380 \text{ kg cm}^{-2}$
Reducibility Index (RI)	$\geq 82\%$
Metallization (DRI)	$\geq 97\%$
Moisture	$\leq 0.65\%$
Texture	Consistent pellets, dense microstructure

Product Image



Features & Benefits:

- High iron content (70–72% Fe) for superior steel yield
- Sustainable, waste-derived source (from alumina residue)
- Multi-grade applications: H_2 -DRI, EAF, blast furnace feedstock
- Consistent quality for industrial-scale supply and long-term contracts
- Low impurity profile for clean steelmaking operations

Primary Industry Applications

1. Hydrogen Direct Reduction (H_2 -DRI): Premium feedstock for green steel production, ultra-low impurities
2. Natural Gas Direct Reduction (DRI): Premium feedstock for Gas powered green steel production, ultra-low impurities.
3. Electric Arc Furnace (EAF) Steel: High-performance pellet feed for quality steel grades
4. Blast Furnace Operations: Cost-effective iron source with reliable chemistry
5. Specialty Steel / Alloy Production: Controlled composition for precision steelmaking processes