OCHNOLOGY SOLUTION PVT. LTD
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Product Data Sheet

Iron Ore Fines – 57% Fe Grade

Description

Description	Iron Ore Fines (57% Fe) is a natural, unprocessed iron ore product primarily composed of hematite, supplied in fine particle form for use as sinter feed and general blast furnace charge blending material. This grade represents the standard lower-grade fines commodity that constitutes the bulk of India's iron ore export trade.
Applications	Sinter feed for blast furnace/steelmaking sinter plants Blending material for blast furnace charge alongside higher-grade ore Feedstock for further beneficiation or pelletisation by the buyer
Grade	57% Fe Fines Grade
CAS No.	Natural mineral – primarily hematite (Fe2O3), CAS 1309-37-1

Key Benefits

1. Cost-effective iron unit source for blending in sinter/blast furnace feed
2. Consistent Fe content supporting predictable metallurgical planning
3. Suitable fines size distribution for sinter plant feed
4. Widely traded, established India-to-China export commodity grade
5. Competitively priced relative to higher-grade ore, suited to bulk blending strategies

Chemical Analysis & Physical Data

Typical Specification

Parameter	Test Method	Unit	Specification
Fe (Total Iron)	XRF / Wet Chemical	wt%	56.5 – 57.5 (57% ± 1)

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Parameter	Test Method	Unit	Specification
	Method		
SiO2	XRF Method	wt%	Max. 6.0
Al2O3	XRF Method	wt%	Max. 5.0
Moisture	Oven-Drying Method	wt%	6.0 – 8.0
Phosphorus (P)	Spectrophotometric Method	wt%	Max. 0.08
Sulphur (S)	Combustion / Titration Method	wt%	Max. 0.05
LOI (Loss on Ignition)	Gravimetric Method	wt%	3.0 – 5.0
Size	Sieve Analysis	mm	0 – 10 (fines)

Packaging

Packaging Bulk (bulk carrier vessel shipment) – standard for the iron ore export trade
Jumbo bags available for smaller quantities on request.

Storage & Handling

1. Store in a covered or designated open stockyard away from contamination
2. Minimise moisture pickup during monsoon season, particularly for Odisha-sourced ore
3. Segregate by grade to avoid mix-up during storage and loading
4. Follow standard bulk mineral handling and stockpile management practices

Quality Assurance

1. Every shipment is tested against the specification above before dispatch

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2. A shipment-specific Certificate of Analysis (COA) accompanies each consignment, reporting Fe, SiO2, Al2O3, moisture, phosphorus and sulphur against this TDS
3. COA available on request prior to shipment for buyer pre-approval
4. Third-party load-port inspection (SGS/Intertek/CIQ) can be arranged on request for regulated-market shipments

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