

Indian – Haematite Iron Ore

1) Iron Ore Karnataka – IOK (west – coast of India): Fe 50% and Fe 52% (Low Alumina Cargo – 1.8%)

Chemical Specifications	Guaranteed (%)	Typical (%)
Iron (Fe)	52	52.2
Silica (SiO ₂)	7	6.8
Alumina (Al ₂ O ₃)	2	1.8
Manganese (Mn)	6.00	5.50
Phosphorus (P)	0.12	0.10
Sulphur (S)	0.010	0.009
LOI	9	8.8
Moisture	10.5	10
Size Distributions	Guaranteed (%)	Typical (%)
+10 mm	10	8
-0.15 mm	33	30

Chemical Specifications	Guaranteed (%)	Typical (%)
Iron (Fe)	50.5	50.8
Silica (SiO ₂)	10.5	10
Alumina (Al ₂ O ₃)	2.5	2.3
Manganese (Mn)	5	4.8
Phosphorus (P)	0.1	0.09
Sulphur (S)	0.01	0.009
LOI	7.8	7.5
Moisture	9	8.8
Size Distributions	Guaranteed (%)	Typical (%)
+10 mm	12	10
-0.15 mm	35	33

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2) Iron Ore Orissa – IOO (east-coast of India): Fe 54.5%

Chemical Specifications	Guaranteed (%)	Typical (%)
Iron (Fe)	54.50	54.70
Silica (SiO ₂)	7.3	6.8
Alumina (Al ₂ O ₃)	7	6.5
Phosphorus (P)	0.09	0.07
Sulphur (S)	0.02	0.015
Size Distributions	Guaranteed (%)	Typical (%)
+10 mm	15	10
-0.15 mm	17	12
LOI	7.5	6.5
Moisture	11	10

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3) Iron Ore Goa – IOG (west – coast of India): Fe 50% and Fe 57%

Chemical Specifications	Guaranteed (%)	Typical (%)
Iron (Fe)	50.2	50.7
Silica (SiO ₂)	6.5	6
Alumina (Al ₂ O ₃)	10.5	10
Manganese (Mn)	0.9	0.8
Phosphorus (P)	0.08	0.07
Sulphur (S)	0.025	0.02
Moisture	12	11.5
LOI	9.5	9.2

Chemical Specifications	Guaranteed (%)	Typical (%)
Iron (Fe)	57	57.5
Silica (SiO ₂)	5	4.5
Alumina (Al ₂ O ₃)	4.5	4
Manganese (Mn)	0.8	0.7
Phosphorus (P)	0.08	0.07
Sulphur (S)	0.025	0.02
Moisture	12	11.5
LOI	7.2	7