ENERGY COMMODITY

US Thermal Coal

Typical export-grade quality profile for commercial discussion and supplier matching.

PARAMETER	TYPICAL RANGE
Gross calorific value	**5,500–6,000 kcal/kg (NAR)**
Total sulphur	**1–3%**
Ash	**12–16% (as received)**
Total moisture	**8–12%**
Volatile matter	**30–38%**
Hardgrove Grindability Index (HGI)	**40–50**
Size	**0–50 mm**

Typical ranges based on market data. Final specifications confirmed per supplier and shipment via independent inspection (SGS / Bureau Veritas or equivalent) before loading.

FUEL-GRADE COMMODITY

US Petroleum Coke

Typical fuel-grade quality profile for US Gulf Coast supply discussions.

PARAMETER	TYPICAL RANGE
Gross calorific value	**~7,500–8,000 kcal/kg (13,500–14,500 Btu/lb)**
Sulphur	**4.5% and 6.5% grades (typical range 2.5–6.5%)**
Ash	**0.1–0.5%**
Volatile matter	**9–12%**
Hardgrove Grindability Index (HGI)	**~40**
Vanadium	**200–600 ppm**

Typical ranges based on market data. Final specifications confirmed per supplier and shipment via independent inspection (SGS / Bureau Veritas or equivalent) before loading.

STEELMAKING RAW MATERIAL

India Sponge Iron / DRI

Typical direct reduced iron (DRI) quality profile for commercial discussion and supplier matching.

PARAMETER	TYPICAL RANGE
Total Fe	**90% (±1)**
Metallic Fe	**80% (±1)**
Metallization	**~88–90%**
Carbon	**0.04–0.20%**
Sulphur	**0.05% max**
Phosphorus	**0.07% max**
Sizes	**Lumps 4–18 mm; fines 0–4 mm**

Typical ranges based on market data. Final specifications confirmed per supplier and shipment via independent inspection (SGS / Bureau Veritas or equivalent) before loading.