

LOCAL • LOW-SULPHUR BALOCHISTAN

Zardalo Coal (Low Sulphur Local)

High-heat Balochistan coal with very low moisture and sulphur well below the usual 3–6% of local coal. Our latest lot tested 6,229 kcal/kg as received with 2.3% sulphur.

SOURCE AREA Balochistan (Zardalo area); nearest published field data: Khost–Sharigh–Harnai coalfield	RANK High-volatile sub-bituminous	SUPPLY Regular — selected mines, by road
---	---	--

Specification

Parameter	Basis	Typical	Range / limit	Test method
Gross calorific value	ARB	6,229 kcal/kg	6,000 kcal/kg min	ASTM D5865 / ISO 1928
Total moisture	ARB	4.5%	7% max	ASTM D3302 / ISO 589
Inherent moisture	ADB	2.2%	4% max	ASTM D3173
Ash	ADB	20.6%	22% max	ASTM D3174 / ISO 1171
Volatile matter	ADB	39.9%	36 – 43%	ASTM D3175 / ISO 562
Fixed carbon	ADB	37.3%	35% min	ASTM D3172
Total sulphur	ADB	2.3%	2.5% max	ASTM D3177
Size	—	0 – 50 mm	Lumps on request	ASTM D4749

Typical = latest lot analysis (SFTS/4464/926). Limits are Essa Energy's offered specification; each lot ships with its own analysis.

Latest Essa Energy lot analysis ³

SFTS report SFTS/4464/926 (Zardalo, tested 22 Sep 2026)

Total moisture (ARB)	Inherent moisture (ADB)	Volatile matter (ADB)	Ash (ADB)	Fixed carbon (ADB)	Total sulphur (ADB)	Gross calorific value (ARB)
4.5%	2.2%	39.9%	20.6%	37.3%	2.3%	6,229 kcal/kg

Very dry (4.5% total moisture), so almost all of its heat is delivered. Sulphur 2.3% — far below local field averages, slightly above imported RB2.

Best suited for: Cement kilns and boilers wanting high local heat value • Blending with RB2 or Indonesian coal to hold sulphur near 1.5% • Buyers who need low-moisture coal

Market notes

- Published data for the wider Khost–Sharigh–Harnai field: sulphur 3.5 – 9.6%, ash 9.3 – 34%, heating value 9,637 – 15,499 Btu/lb (≈ 5,350 – 8,600 kcal/kg) ¹.
- At 2.3% sulphur, Zardalo is roughly half the sulphur of typical Balochistan coal (2.8 – 7.1%) ².
- Typical and limit values on this sheet come from our latest lot analysis ³; every lot ships with its own analysis.

Indicative specification; final quality per the certificate of analysis of each cargo or lot. ARB as received • ADB air dried • NAR / GAR net / gross as received.

Sources: 1. NEPRA — Coal Potential in Pakistan (coalfield quality tables) — www.nepa.org.pk • 2. PACRA — Coal Sector Presentation, July 2020 — www.pacra.com • 3. Essa Energy lot analysis — SFTS report SFTS/4464/926 (Zardalo, tested 22 Sep 2026)