

# Coal Quality

	Parameter	Basis	Unit	Typical
Proximate Analysis	Total Moisture	ARB	%	33.5
	Ash	ARB	%	5.0
	Volatile Matter	ARB	%	31.5
	Fixed Carbon	ARB	%	30.0
	Calorific Value	GAR	kcal/kg	4,700
		NAR	kcal/kg	4,350
	Total Sulphur	ARB	%	0.5
HGI			45	
Ultimate Analysis	Carbon	DAF	%	72.0
	Hydrogen	DAF	%	4.7
	Nitrogen	DAF	%	0.9
	Oxygen	DAF	%	21.6
	Sulphur	DAF	%	0.8
Ash Fusion Temperature	Reducing Atmosphere	Deformation	°C	1,200
		Hemisphere	°C	1,240
		Flow	°C	1,270
	Oxidizing Atmosphere	Deformation	°C	1,290
		Hemisphere	°C	1,310
Ash Analysis	Silicon - SiO <sub>2</sub>	DB	%	35.0
	Aluminium - Al <sub>2</sub> O <sub>3</sub>	DB	%	20.0
	Iron - Fe <sub>2</sub> O <sub>3</sub>	DB	%	20.0
	Calcium - CaO	DB	%	11.0
	Magnesium - MgO	DB	%	3.0
	Sodium - Na <sub>2</sub> O	DB	%	0.3
	Potassium - K <sub>2</sub> O	DB	%	0.7
	Phosphorus - P <sub>2</sub> O <sub>5</sub>	DB	%	0.3
	Titanium - TiO <sub>2</sub>	DB	%	1.0
Sulphur - SO <sub>3</sub>	DB	%	9.0	
Sizing	>50.00		%	5
	50.00-31.50		%	18
	31.50-22.40		%	10
	22.40-11.20		%	22
	11.20-4.75		%	15
	4.75-2.00		%	11
	2.00-1.00		%	7
	1.00-0.50		%	5
	<0.50		%	7

# envirocoal 4700

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