

Quality of coal deposits in New South Wales

The major coal deposits in NSW range in rank from bituminous coking and thermal coals to sub-bituminous thermal coals (brown coal). The quality of thermal coals ranges from medium-ash to high-ash, low-sulphur coal used for domestic power generation and cement manufacture; to low ash to medium-ash, high energy, export quality coal. Prime, low-volatile, hard coking coal and low ash, semi-soft coking coal, used for iron and steel production, supply both the export and domestic markets.

Coal field coal type	Southern			Western			Hunter			Newcastle		Gunnedah		Gloucester		Oaklands	
	Export / Domestic Hard coking	Export Thermal	Cement	Export Thermal	Domestic Thermal	Cement	Export Thermal	Domestic Thermal	Export Soft Coking	Export Thermal	Domestic Thermal	Soft Coking	Export Thermal	Export Soft Coking	Export Thermal	Coking	Domestic Thermal
Moisture% (ad)	1.0	1.1	1.1	2.5	2.6	3.2	2.7	3.9	2.7	2.3	2.3	2.3	4.0	4.0	1.5	1.5	-
(ar)	7.9	6.4	6.4	8.9	8.0	-	9.1	9.5	9.9	8.5	7.5	8.1	-	-	9.0	9.0	28.0
Ash% (ad)	9.3	19.5	19.5	13.7	20.4	24.5	13.5	25.9	8.9	15.1	22.0	8.1	10.0	6.5	17.5	10.0	12.00
Vm% (ad)	22.9	20.8	20.8	30.5	28.7	25.3	32.7	30.4	34.7	30.6	26.7	36.3	37.0	37.9	26.8	29.3	22.0
Ts% (ad)	0.40	0.45	0.45	0.65	0.55	0.40	0.60	0.90	0.55	0.60	0.40	0.90	0.45	0.45	0.65	0.65	0.20
Se (kcal/kg)	7570	6750	6750	6890	6600	5460	6810	5430	7250	6760	6010	7480	7050	7400	6800	-	4180
(Mj/kg)	31.8	28.2	28.2	28.8	27.6	24.5	28.5	22.7	30.4	28.3	25.0	31.4	29.1	-	28.9	-	17.5
CSN	6.5	1.5	1.5	1.0	1.0	-	1.5	2.0	5.0	2.0	1.5	6.0	-	5.0	-	-	-
Aft(°C) Deform	1560	1460	1460	1420	1460	-	1270	1330	1380	1380	1480	1290	1400	-	1530	1530	1390
Flow	1590	1530	1530	1560	1570	-	1510	1510	1540	1540	1590	1550	1550	-	1600	1600	1540
HGI	68	64	64	49	45	49	50	49	51	52	52	49	45	45	65	65	100
Gray-King	G3	-	-	-	-	-	-	-	G2	-	-	G6	-	-	-	G8	-
Max. Fluid (ddm)	1800	-	-	-	-	-	100	-	130	-	-	7420	-	200	-	5000+	-
Phosphorus% (ad)	0.061	0.030	0.030	0.011	0.009	0.010	0.027	0.031	0.025	0.032	0.024	0.045	0.006	0.005	-	0.060	0.002