

PIKE RIVER PREMIUM HARD COKING COAL

1.2% Sulphur Full Seam Indicative Specification

Total Moisture	9.0%	Coking Properties	
Proximate Analysis (adb)		FSI	8 – 9
Inherent Moisture	1.0%	Gieseler Plastometer	
Ash	1.0%	Initial Softening	400 °C
Volatile Matter	44.0%	Fusion (5 ddpm)	404 °C
Fixed Carbon	54.3%	Maximum Fluidity	430 °C
Total Sulphur	1.2%	Resolidification	476 °C
		Plastic Range	76 °C
Calorific Value	8,240 kcal/kg	Log Fluidity	4.60
HGI	50	Gray King Coke Type	G10
P In Coal	< 0.0010%	Audibert Amu Dilatometer	
Ultimate analysis (daf)		Softening	329 °C
Carbon	84.2%	Maximum Contraction	401 °C
Hydrogen	6.02%	Maximum Dilatation	520 °C
Nitrogen	0.92%	Maximum Contraction	30%
Sulphur	1.2%	Maximum Dilatation	284%
Oxygen by Difference	7.01%	Total Dilatation	314%
Ash Fusion Temperature (Red)		Maceral Analysis	
Deformation	1310 °C	Vitrinite	83.6%
Hemisphere	1320 °C	Liptinite	10.2%
Flow	1350 °C	Inertinite	5.4%
		Mineral Matter	0.8%
Ash Composition (db)		Reflectance R _{Omax}	0.8%
SiO ₂	18.3%	G	98
Al ₂ O ₃	11.2%	X Index	23
Fe ₂ O ₃	8.5%	Y Index	32
CaO	18.1%	DI 150/15	61.4
Na ₂ O	1.6%		
K ₂ O	0.58%		
TiO ₂	0.35%		
Mn ₃ O ₄	0.08%		
SO ₃	31.2%		
P ₂ O ₅	0.11%		