

# Thermal Coal Specification

The following specifications are measured in accordance with ASTM standards

			ABN 52		ABN 58	
Proximate Analysis			Typical	Rejection	Typical	Rejection
Calorific Value	GAD	kcal/kg	5800	< 5600	6250	< 6050
Calorific Value	GAR	kcal/kg	5200	< 5000	5800	< 5600
Calorific Value	NAR	kcal/kg	4900		5500	
Total Moisture	GAR	%	25	> 27	19	> 22
Inherent Moisture	GAD	%	15		11	
Ash	GAD	%	6	> 8	6	> 8
Volatile Matter	GAD	%	40		40	
Total Sulphur	GAD	%	0.8	> 1	0.9	> 1
Hardgrove Index			45	< 42	45	< 42
Sizing			Typical	Rejection	Typical	Rejection
0 x 50mm		%	100	< 95	100	< 95
0 x 2mm		%	15	> 20	15	> 20
Ash Fusion Temps			Typical	Rejection	Typical	Rejection
Initial Deformation		OC	1280	< 1150	1280	< 1150
Spherical		OC	1300	< 1250	1300	< 1250
Hemispherical		OC	1320		1320	
Flow		OC	1350		1350	
Ultimate Analysis			Typical		Typical	
Carbon	DAF	%	75		75	
Hydrogen	DAF	%	5		5	
Nitrogen	DAF	%	1.7		1.7	
Oxygen	DAF	%	18.3		18.3	
Ash Constituents			Typical		Typical	
SiO2	DB	%	51.5		51.5	
Al2O3	DB	%	26		26	
Fe2O3	DB	%	14		14	
CaO	DB	%	2.5		2.5	
MgO	DB	%	1.3		1.3	
SO3	DB	%	1.1		1.1	
TiO2	DB	%	0.7		0.7	
Na2O	DB	%	0.1		0.1	
K2O	DB	%	1.4		1.4	
P2O5	DB	%	1.1		1.1	
Other	DB	%	0.3		0.3	
Trace Elements			Typical		Typical	
Selenium	DB	ppm	0.5		0.5	
Boron	DB	ppm	150		150	
Arsenic	DB	%	2		2	
Chloride	DB	%	0.01		0.01	
Chlorine		ppm	150		150	
Nickel	DB	%	180		180	
Flourine		ppm	40		40	