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12300 STEAM COAL

	Parameter	Basis	Typical Specification	Units
Calorific Value	GCV	As received	6,835	kcal/kg
		As received	12,300	BTU/lb
		As received	28.62	MJ/kg
	NCV	As received	6,557	kcal/kg
		As received	11,800	BTU/lb
		As received	27.46	MJ/kg
Proximate Analysis	Total Moisture	As received	9.0	%
	Ash	As received	9.0	%
	Volatile Matter	As received	38.0	%
	Fixed Carbon (by diff.)	As received	44.0	%
	Total Sulphur	As received	0.70	%
Ultimate Analysis	Carbon	Dry	69.00	%
	Hydrogen	Dry	4.82	%
	Nitrogen	Dry	1.81	%
	Sulphur	Dry	0.77	%
	Ash	Dry	9.89	%
	Oxygen	Dry	13.71	%
Ash Analysis	SiO_2	Dry	62.50	%
	Al_2O_3	Dry	22.98	%
	Fe_2O_3	Dry	6.50	%
	CaO	Dry	2.10	%
	MgO	Dry	0.57	%
	TiO_2	Dry	1.32	%
	K_2O	Dry	0.95	%
	Na_2O	Dry	0.30	%
	SO_3	Dry	1.20	%
	P_2O_5	Dry	0.12	%
Ash Fusion	Initial Deformation	Reducing	1,300	°C
	Spherical	Reducing	1,350	°C
	Hemispherical	Reducing	1,400	°C
	Flow	Reducing	1,450	°C
Ash characteristics	Base to Acid ratio		0.12	
	Slagging index		0.09	
	Fouling index		0.04	
Handling	HGI		50	
	Nominal topsize		0	mm
	Fuel ratio		1.16	

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11300 STEAM COAL

	Parameter	Basis	Typical Specification	Units
Calorific Value	GCV	As received	6,281	kcal/kg
		As received	11,303	BTU/lb
		As received	26.30	MJ/kg
	NCV	As received	5,997	kcal/kg
		As received	10,791	BTU/lb
		As received	25.11	MJ/kg
Proximate Analysis	Total Moisture	As received	12.6	%
	Ash	As received	9.0	%
	Volatile Matter	As received	37.6	%
	Fixed Carbon (by diff.)	As received	40.8	%
	Total Sulphur	As received	0.95	%
Ultimate Analysis	Carbon	Dry	68.82	%
	Hydrogen	Dry	4.71	%
	Nitrogen	Dry	1.77	%
	Sulphur	Dry	1.08	%
	Ash	Dry	10.29	%
	Oxygen	Dry	13.32	%
Ash Analysis	SiO_2	Dry	54.58	%
	Al_2O_3	Dry	22.95	%
	Fe_2O_3	Dry	8.96	%
	CaO	Dry	3.65	%
	MgO	Dry	1.43	%
	TiO_2	Dry	1.22	%
	K_2O	Dry	0.91	%
	Na_2O	Dry	0.76	%
	SO_3	Dry	4.05	%
	P_2O_5	Dry	0.12	%
Ash Fusion	Initial Deformation	Reducing	1,237	°C
	Spherical	Reducing	1,274	°C
	Hemispherical	Reducing	1,338	°C
	Flow	Reducing	1,377	°C
Ash characteristics	Base to Acid ratio		0.20	
	Slagging index		0.22	
	Fouling index		0.15	
Handling	HGI		50	
	Nominal topsize		0	mm
	Fuel ratio		1.08	

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10800 STEAM COAL

	Parameter	Basis	Typical Specification	Units
Calorific Value	GCV	As received	6,001	kcal/kg
		As received	10,800	BTU/lb
		As received	25.13	MJ/kg
	NCV	As received	5,713	kcal/kg
		As received	10,281	BTU/lb
		As received	23.92	MJ/kg
Proximate Analysis	Total Moisture	As received	14.5	%
	Ash	As received	10.5	%
	Volatile Matter	As received	37.5	%
	Fixed Carbon (by diff.)	As received	37.5	%
	Total Sulphur	As received	0.98	%
Ultimate Analysis	Carbon	Dry	68.75	%
	Hydrogen	Dry	4.66	%
	Nitrogen	Dry	1.76	%
	Sulphur	Dry	1.14	%
	Ash	Dry	12.28	%
	Oxygen	Dry	11.41	%
Ash Analysis	SiO_2	Dry	51.25	%
	Al_2O_3	Dry	22.94	%
	Fe_2O_3	Dry	10.00	%
	CaO	Dry	4.30	%
	MgO	Dry	1.79	%
	TiO_2	Dry	1.18	%
	K_2O	Dry	0.90	%
	Na_2O	Dry	0.95	%
	SO_3	Dry	5.25	%
	P_2O_5	Dry	0.12	%
Ash Fusion	Initial Deformation	Reducing	1,210	°C
	Spherical	Reducing	1,242	°C
	Hemispherical	Reducing	1,312	°C
	Flow	Reducing	1,347	°C
Ash characteristics	Base to Acid ratio		0.24	
	Slagging index		0.27	
	Fouling index		0.23	
Handling	HGI		50	
	Nominal topsize		0	mm
	Fuel ratio		1.00	

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10500 STEAM COAL

	Parameter	Basis	Typical Specification	Units
Calorific Value	GCV	As received	5,835	kcal/kg
		As received	10,500	BTU/lb
		As received	24.43	MJ/kg
	NCV	As received	5,543	kcal/kg
		As received	9,976	BTU/lb
		As received	23.21	MJ/kg
Proximate Analysis	Total Moisture	As received	15.6	%
	Ash	As received	9.0	%
	Volatile Matter	As received	37.4	%
	Fixed Carbon (by diff.)	As received	37.9	%
	Total Sulphur	As received	0.99	%
Ultimate Analysis	Carbon	Dry	68.71	%
	Hydrogen	Dry	4.63	%
	Nitrogen	Dry	1.75	%
	Sulphur	Dry	1.18	%
	Ash	Dry	10.67	%
	Oxygen	Dry	13.07	%
Ash Analysis	SiO_2	Dry	49.26	%
	Al_2O_3	Dry	22.93	%
	Fe_2O_3	Dry	10.62	%
	CaO	Dry	4.69	%
	MgO	Dry	2.00	%
	TiO_2	Dry	1.16	%
	K_2O	Dry	0.89	%
	Na_2O	Dry	1.06	%
	SO_3	Dry	5.96	%
	P_2O_5	Dry	0.11	%
Ash Fusion	Initial Deformation	Reducing	1,194	°C
	Spherical	Reducing	1,222	°C
	Hemispherical	Reducing	1,296	°C
	Flow	Reducing	1,328	°C
Ash characteristics	Base to Acid ratio		0.26	
	Slagging index		0.31	
	Fouling index		0.28	
Handling	HGI		50	
	Nominal topsize		0	mm
	Fuel ratio		1.01	

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10200 STEAM COAL

	Parameter	Basis	Typical Specification	Units
Calorific Value	GCV	As received	5,670	kcal/kg
		As received	10,203	BTU/lb
		As received	23.74	MJ/kg
	NCV	As received	5,376	kcal/kg
		As received	9,674	BTU/lb
		As received	22.51	MJ/kg
Proximate Analysis	Total Moisture	As received	16.8	%
	Ash	As received	9.0	%
	Volatile Matter	As received	37.3	%
	Fixed Carbon (by diff.)	As received	36.9	%
	Total Sulphur	As received	1.04	%
Ultimate Analysis	Carbon	Dry	68.66	%
	Hydrogen	Dry	4.60	%
	Nitrogen	Dry	1.74	%
	Sulphur	Dry	1.25	%
	Ash	Dry	10.82	%
	Oxygen	Dry	12.94	%
Ash Analysis	SiO_2	Dry	54.05	%
	Al_2O_3	Dry	22.93	%
	Fe_2O_3	Dry	8.19	%
	CaO	Dry	5.07	%
	MgO	Dry	2.21	%
	TiO_2	Dry	1.13	%
	K_2O	Dry	0.88	%
	Na_2O	Dry	1.18	%
	SO_3	Dry	6.67	%
	P_2O_5	Dry	0.11	%
Ash Fusion	Initial Deformation	Reducing	1,227	°C
	Spherical	Reducing	1,252	°C
	Hemispherical	Reducing	1,329	°C
	Flow	Reducing	1,359	°C
Ash characteristics	Base to Acid ratio		0.22	
	Slagging index		0.28	
	Fouling index		0.26	
Handling	HGI		50	
	Nominal topsize		0	mm
	Fuel ratio		0.99	

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9100 STEAM COAL

	Parameter	Basis	Typical Specification	Units
Calorific Value	GCV	As received	5,057	kcal/kg
		As received	9,100	BTU/lb
		As received	21.17	MJ/kg
	NCV	As received	4,753	kcal/kg
		As received	8,553	BTU/lb
		As received	19.90	MJ/kg
Proximate Analysis	Total Moisture	As received	21.0	%
	Ash	As received	9.0	%
	Volatile Matter	As received	37.0	%
	Fixed Carbon (by diff.)	As received	33.0	%
	Total Sulphur	As received	1.40	%
Ultimate Analysis	Carbon	Dry	66.50	%
	Hydrogen	Dry	4.50	%
	Nitrogen	Dry	1.70	%
	Sulphur	Dry	1.77	%
	Ash	Dry	11.39	%
	Oxygen	Dry	14.14	%
Ash Analysis	SiO_2	Dry	40.00	%
	Al_2O_3	Dry	22.90	%
	Fe_2O_3	Dry	13.50	%
	CaO	Dry	6.50	%
	MgO	Dry	3.00	%
	TiO_2	Dry	1.04	%
	K_2O	Dry	0.85	%
	Na_2O	Dry	1.60	%
	SO_3	Dry	9.30	%
	P_2O_5	Dry	0.11	%
Ash Fusion	Initial Deformation	Reducing	1,120	°C
	Spherical	Reducing	1,133	°C
	Hemispherical	Reducing	1,223	°C
	Flow	Reducing	1,243	°C
Ash characteristics	Base to Acid ratio		0.40	
	Slagging index		0.71	
	Fouling index		0.64	
Handling	HGI		50	
	Nominal topsize		0	mm
	Fuel ratio		0.89	