

## **The “Ultimates” Coal CRM**

Art. ID AR-2776  
Unit 50 g  
Deliverydetails No Dangerous Good /not restricted

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Proximate Analysis	Ash		9,31 ± 0,63	%	ASTM D3174 /D7582	
Proximate Analysis	Volatile matter		35,5 ± 1,3	%	ASTM D3174 /D7582	
Proximate Analysis	Fixed Carbon (calculate d)		~55,2	%	ASTM D3172	
Proximate Analysis	Sulfur (S)	[7704-34-9]	1,11 ± 0,05	%	ASTM D4239	
Proximate Analysis	BTU/Lb		12723 ± 140		ASTM D5865	
Ultimate Analysis	Carbon (C)	[7440-44-0]	72,4 ± 0,69	%	ASTM D5373	
Ultimate Analysis	Hydrogen (H)	[1333-74-0]	4,52 ± 0,75	%	ASTM D5373	
Ultimate Analysis	Nitrogen (N)	[7727-37-9]	1,42 ± 0,05	%	ASTM D5373	
Ultimate Analysis	Oxygen (calculated)		~11,24	%	ASTM D3176	
Mineral Analysis	Silicon (Si)	[7440-21-3]	47,37 ± 2,39	%	ASTM D4326 /D6349	
Mineral Analysis	Aluminium (Al)	[7429-90-5]	24,79 ± 2,23	%	ASTM D4326 /D6349	
Mineral Analysis	Titanium (Ti)	[7440-32-6]	1,11 ± 0,09	%	ASTM D4326 /D6349	
Mineral Analysis	FeO		12,45 ± 1,01	%	ASTM D4326 /D6349	
Mineral Analysis	CaO		4,42 ± 0,29	%	ASTM D4326 /D6349	
Mineral Analysis	MgO	[1309-48-4]	1,36 ± 0,13	%	ASTM D4326 /D6349	
Mineral Analysis	K <sub>2</sub> O		1,44 ± 0,30	%	ASTM D4326 /D6349	
Mineral Analysis	NaO		0,64 ± 0,17	%	ASTM D4326 /D6349	
Mineral Analysis	SO <sub>3</sub>		~4,89	%	ASTM D4326 /D6349	
Mineral Analysis	Strontium oxide	[1314-11-0]	0,77 ± 0,16	%	ASTM D4326	

					/D6349
Mineral Analysis	P2O5	~0,15	%		ASTM D4326
					/D6349
Mineral Analysis	BaO	0,18 ± 0,02	%		ASTM D4326
					/D6349
Mineral Analysis	MnO	~0,11	%		ASTM D4326
					/D6349
Sulfur Forms	Pyritic	~0,14	%		ASTM D2492
Sulfur Forms	Organic (calculated)	~0,91	%		ASTM D2492
Sulfur Forms	Sulfate	~0,06	%		ASTM D2492