

## The "Ultimates" Coal CRM

Art. ID AR-2778  
Unit 50 g  
Deliverydetails No Dangerous Good /not restricted

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Proximate Analysis	Ash		5,54 ± 0,15	%	D3174/D758	2
Proximate Analysis	Carbon (C)	[7440-44-0]	86,20 ± 1,11	%	D5373	
Proximate Analysis	Volatile matter		17,58 ± 0,83	%	D3175/D758	2
Proximate Analysis	Hydrogen (H)	[1333-74-0]	4,36 ± 0,27	%	D5373	
Proximate Analysis	Fixed Carbon (calculated)		~76,88	%	D3172	
Proximate Analysis	Nitrogen (N)	[7727-37-9]	1,20 ± 0,18	%	D5373	
Proximate Analysis	Sulfur (S)	[7704-34-9]	0,76 ± 0,03	%	D4239	
Proximate Analysis	Oxygen (calculated)		~1,94	%	D3176	
Proximate Analysis	BTU/Lb		14829 ± 108		D5865	
Proximate Analysis	MAF/DAF BTU		15679 ± 106		D3180	
Mineral analysis Wt.%	Silica	[112945-52-5]	34,75 ± 3,88	%	D4326/D634	9
Mineral analysis Wt.%	Alumina		20,13 ± 1,08	%	D4326/D634	9
Mineral analysis Wt.%	Titania		1,10 ± 0,18	%	D4326/D634	9
Mineral analysis Wt.%	Sulfate		0,09 ± 0,03	%	D2492	
Mineral analysis Wt.%	Ferric Oxide		13,60 ± 0,86	%	D4326/D634	9
Mineral analysis Wt.%	Calcium oxide	[1305-78-8]	12,76 ± 1,00	%	D4326/D634	9
Mineral analysis Wt.%	Sodium oxide	[1313-59-3]	0,46 ± 0,07	%	D4326/D634	9
Mineral analysis Wt.%	Sulfur trioxide	[7446-11-9]	13,45 ± 1,13	%	D4326/D634	9
Mineral analysis Wt.%	Phosphorus Pentoxide	[1314-56-3]	~0,08 ± 0,04	%	D4326/D634	9
Mineral analysis Wt.%	Strontium oxide	[1314-11-0]	0,30 ± 0,07	%	D4326/D634	

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Mineral analysis Wt. %	Barium oxide	[1304-28-5]	0,23 ± 0,01	%	D4326/D634
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Mineral analysis Wt. %	Manganese Oxide		0,06 ± 0,01	%	D4326/D634
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Mineral analysis Wt. %	Potassium Oxide		1,13 ± 0,07	%	D4326/D634
Mineral analysis Wt. %	Undetermined (calculate d)		~0,1	%	
Sulfur Forms	Pyritic		0,13 ± 0,01	%	D2492
Sulfur Forms	Organic (calculated)		~0,54	%	D2492
Sulfur Forms	Sulfate		0,09 ± 0,03	%	D2492
Ash FusionTemperature / ASTM D1857 (Reducing)	Initial deformation		2201	Degrees F	
Ash FusionTemperature / ASTM D1857 (Oxidizing)	Initial deformation		2378	Degrees F	
Ash FusionTemperature / ASTM D1857 (Reducing)	Softening		2346	Degrees F	
Ash FusionTemperature / ASTM D1857 (Oxidizing)	Softening		2427	Degrees F	
Ash FusionTemperature / ASTM D1857 (Reducing)	Hemispherical		2454	Degrees F	
Ash FusionTemperature / ASTM D1857 (Oxidizing)	Hemispherical		2454	Degrees F	
Ash FusionTemperature / ASTM D1857 (Reducing)	Fluid/Final		2437	Degrees F	
Ash FusionTemperature / ASTM D1857 (Oxidizing)	Fluid/Final		2496	Degrees F	
	Chlorine (Cl)	[7782-50-5]	~0,0883 ± 0,002	%	D4208/D672
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