



ACIRS Product Catalogue November 2023

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WHAT'S NEW FROM ACIRS?

LATEST RELEASES

ACIRS-S2C-2023

Australian Coal Industry Reference Samples (ACIRS)

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ACIRS COAL MATRIX REFERENCE MATERIALS

- * **General Coal RMs:** ACIRS-G10-2022
- * **Sulfur RMs:** ACIRS-S2A-2020, ACIRS-S2B-2015, ACIRS-S2C-2023 and ACIRS-S2D-2016
- * **Trace Elements in Coal RMs:** ACIRS-M2-2018

Parameter	ACIRS-G10	ACIRS-M2	ACIRS-S2A	ACIRS-S2B	ACIRS-S2C	ACIRS-S2D
Ash, % d	10.46	9.32	-	-	15.10	18.02
Total Sulfur, % d	0.606	-	0.433	0.692	1.230	2.877
Chlorine, % d	0.052	-	-	0.027	0.0086	-
Phosphorus, % d	0.020	0.1109	-	-	0.0352	-
Relative Density, d	1.379	-	-	-	-	-
Fluorine, mg/kg d	76	176	-	37	94	-
Mercury, mg/kg d	0.029	0.041	-	0.057	0.111	-
Volatile Matter, % d	19.79	-	-	-	-	-
Gross Calorific Value, MJ/kg d	32.331	-	-	-	-	-
Total Carbon, % d	79.45	-	-	-	-	-
Hydrogen, % d	4.365	-	-	-	-	-
Nitrogen, % d	1.801	-	-	-	-	-
Carbonate Carbon, % d	0.032	-	-	-	-	-
Selenium, mg/kg d	-	0.3	-	-	-	-
Arsenic, mg/kg d	-	0.3	-	-	-	-

ACIRS-G10-2022 (125 g)

Price*: \$250.00

ACIRS-S2A-2020 (125 g)

Price*: \$200.00

ACIRS-S2B-2015 (125 g)

Price*: \$200.00

*AUD excluding GST and delivery costs

ACIRS-S2C-2023 (125g)

Price*: \$300.00

ACIRS-S2D-2016 (125 g)

Price*: \$200.00

ACIRS-M2-2018 (50 g)

Price*: \$155.00

ACIRS-FLY ASH REFERENCE MATERIAL*** ACIRS-A1-2016**

ACIRS-A1-2016			
Ash Analysis Parameters		Ash Fusibility Parameters	
SiO ₂ wt%, d	44.1	Reducing Temperatures °C	
Al ₂ O ₃ wt%, d	28.9	Deformation	1257
Fe ₂ O ₃ wt%, d	14.6	Spherical	1287
CaO wt%, d	6.05	Hemispherical	1309
MgO wt%, d	1.25	Flow	1367
Na ₂ O wt%, d	0.43	Oxidising Temperatures °C	
K ₂ O wt%, d	0.46	Deformation	1349
P ₂ O ₅ wt%, d	1.26	Spherical	1383
TiO ₂ wt%, d	1.56	Hemispherical	1398
Mn ₃ O ₄ wt%, d	0.22	Flow	1429
BaO wt%, d	0.18		
SrO wt%, d	0.16		
SO ₃ wt%, d	0.32		
Indicative Parameters			
Co mg/kg, d	43	Pb mg/kg, d	47
Cr mg/kg, d	58	V mg/kg, d	176
Cu mg/kg, d	99	Zn mg/kg, d	90
Ni mg/kg, d	47		

ACIRS-HARDGROVE GRINDABILITY REFERENCE MATERIAL*** ACIRS-H9-2022**

Set of 4 x 1 kg samples

ACIRS-H9-2022	
Hardgrove Grindability Index	
Sample A	30
Sample B	45
Sample C	62
Sample D	87

Other ACIRS products*** ACIRS ELECTRODE CARBON: ACIRS-EC-2011†**

ACIRS-EC-2011 is a 1 kg jar of inert electrode carbon material intended for use in the Gray-King Coke Type test as described in AS 1038.12.2 and ISO 502

ACIRS-EC-2011†			
Moisture, %	0.2	Size Distribution	Mass, %
Ash, % d	2.8	+212 µm	0.2
Volatile Matter, % d	0.8	-212 +125 µm	12.2
Relative Density, d	2.08	-125 +63 µm	25.4
		-63 µm	62.2

† ACIRS' ISO 17034 Scope of Accreditation does not include this product

ACIRS-A1-2016 (80 g)**Price*: \$200.00****ACIRS-H9-2022 (4 x 1 kg)****Price*: \$740.00****ACIRS-EC-2011 (1 kg)****Price*: \$150.00**

* AUD excluding GST and delivery costs