



# ACIRS Product Catalogue

April 2026

[www.acirs.com.au](http://www.acirs.com.au)



## WHAT'S NEW FROM ACIRS?

### LATEST RELEASES

ACIRS-H11-2026 Lot#1

ACIRS-G11-2026

Australian Coal Industry Reference Samples (ACIRS)  
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## ACIRS COAL MATRIX REFERENCE MATERIALS

**General Coal RM:** ACIRS-G11-2026 (125 g sample)  
**Sulfur CERTIFIED RMs:** ACIRS-S2A-2020, ACIRS-S2B-2015, ACIRS-S2C-2023 and ACIRS-S2D-2016 (125 g samples)  
**Trace Elements in Coal RM:** ACIRS-M2-2018 (50 g sample)

Parameter	ACIRS-G11	ACIRS-M2	ACIRS-S2A	ACIRS-S2B	ACIRS-S2C	ACIRS-S2D
Ash, % d	10.45	9.32	-	-	15.10	-
Total Sulfur, % d	0.602	-	0.433	0.692	1.230	2.877
Chlorine, % d	0.057	0.031*	-	0.027	0.0086	-
Phosphorus, % d	0.0169	0.1109	-	-	0.0352	-
Relative Density, d	1.380	-	-	-	-	-
Fluorine, mg/kg d	64	176	-	37	94	-
Mercury, mg/kg d	0.026*	0.041	-	0.057	0.111	0.281
Volatile Matter, % d	19.73	-	-	-	-	-
Gross Calorific Value, MJ/kg d	32.234	-	-	-	-	-
Total Carbon, % d	79.51	-	-	-	-	-
Hydrogen, % d	4.380	-	-	-	-	-
Nitrogen, % d	1.763	-	-	-	-	-
Carbonate Carbon, % d	0.033*	-	-	-	-	-
Selenium, mg/kg d	0.75	0.3	-	-	-	-
Antimony, mg/kg d	0.26*	-	-	-	-	-
Arsenic, mg/kg d	0.43*	0.3	-	-	-	-
Boron, mg/kg d	3.9*	-	-	-	-	-
Cadmium, mg/kg d	0.034*	0.024*	-	-	-	-
Pyritic Sulfur, % d	0.036*	-	-	-	-	-
Sulfate Sulfur, % d	0.022*	-	-	-	-	-

\* informational values only

*ACIRS-G11-2026 and ACIRS-S2C-2023 have been characterised under ACIRS' ISO 17034 NATA scope of accreditation.*

**ACIRS COAL ASH REFERENCE MATERIAL**

**ACIRS-A2-2024**

(75 g sample)

ACIRS-A2-2024			
Ash Analysis Parameters		Ash Fusibility Parameters	
SiO <sub>2</sub> wt%, d	58.0	Reducing Temperatures °C	
Al <sub>2</sub> O <sub>3</sub> wt%, d	26.0	Deformation	1310
Fe <sub>2</sub> O <sub>3</sub> wt%, d	8.8	Spherical	1370
CaO wt%, d	2.61	Hemispherical	1400
MgO wt%, d	1.03	Flow	1480
Na <sub>2</sub> O wt%, d	0.36	Oxidising Temperatures °C	
K <sub>2</sub> O wt%, d	0.90	Deformation	1430
TiO <sub>2</sub> wt%, d	1.42	Spherical	1460
Mn <sub>3</sub> O <sub>4</sub> wt%, d	0.12	Hemispherical	1480
P <sub>2</sub> O <sub>5</sub> wt%, d	0.55	Flow	1520
SO <sub>3</sub> wt%, d	0.13		
*SrO wt%, d	0.04	*Parameters not included in ACIRS' NATA scope of accreditation.	
*BaO wt%, d	0.05		
*ZnO wt%, d	0.01		

**ACIRS HARDGROVE GRINDABILITY INDEX**

**CERTIFIED REFERENCE MATERIAL**

**ACIRS-H11-2026-Lot#1**

(Set of 4 x 1 kg samples)

ACIRS-H11-2026-Lot#1	
	Hardgrove Grindability Index
Sample A	27
Sample B	45
Sample C	64
Sample D	86

*ACIRS-A2-2024 and ACIRS-H11-2026-Lot#1 have been characterised under ACIRS' ISO 17034 NATA scope of accreditation.*

**PRICE LIST**

Product	Size	Price
ACIRS-G11-2026	125 g	\$270.00
ACIRS-M2-2018	50 g	\$155.00
ACIRS-S2A-2020	125 g	\$200.00
ACIRS-S2B-2015	125 g	\$200.00
ACIRS-S2C-2023	125 g	\$300.00
ACIRS-S2D-2016	125 g	\$200.00
ACIRS-A2-2024	75 g	\$250.00
ACIRS-H11-2026-Lot#1	4 x 1 kg	\$1,095.00

*Price in AUD excluding GST and delivery costs*