



National Association of Testing Authorities, Australia SCOPE OF ACCREDITATION

ACIRL Quality Testing Services Pty Ltd
trading as **ACTest**

ACTEST MACKAY COAL TESTING LABORATORY
| Accreditation Number: 15784 | Site Number: 14454 |

Address Details:

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PAGET, QLD 4740
AUSTRALIA

Website: www.alsglobal.com

Contact Details:

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Availability: Services available to external clients

Note: Not all of the columns of the scope of accreditation displayed include data.

The only data displayed is that deemed relevant and necessary for the clear description of the activities and services covered by the scope of accreditation.

Grey text appearing in a SoA is additional freetext providing further refinement or information on the data in the preceding line entry.

ISO/IEC 17025 (2005)
Materials

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATION/RANGE
Analysis of coals, coke, charcoal and related products	Coal	Plasticity	Sapozhnikov test	GB/T 479:2000 (Chinese) GOST 1186-87 (Russian) CBM-P024 in-house	
		Fluorine	Ion selective electrode (ISE)	AS 1038.10.4 ASTM D5987 ISO 11724	
		Phosphorus	Classical	AS 1038.9.2 AS 1038.9.4 (Borate fusion)	
		Size analysis	Classical	AS 3881 (2002) ASTM D4749 BS 1016.109 ISO 1953	
		Sample preparation of coals and coke	Classical	ASTM D2013	
		Plasticity	Gieseler	AS 1038.12.4.1	

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			plastometer	(1996) ASTM D2639 ISO 10329	
		Crucible swelling number; Free swelling index;	Classical	AS 1038.12.1 (2002) ASTM D720 BS 1016.107.1 ISO 501 BS ISO 501	
		Caking index	Classical	ISO 15585 BSISO 15585 GB/T 5447:1997	
		Hardgrove grindability index	Classical	AS 1038.20 ASTM D409 BS 1016.112 ISO 5074	
		Chlorine; Fluorine;	Ion chromatography (IC)	ISO/TS 18806 (Method A)	
		Moisture - Total	Classical	AS 1038.1 (2001) ASTM D2961 BS 1016.1 ISO 589	
		Relative degree of oxidation	UV-vis spectrophotometry	ASTM 5263	
		Aluminium; Barium; Calcium; Iron; Magnesium; Manganese; Phosphorus; Potassium; Silicon; Sodium; Strontium; Sulfur; Titanium; Zinc;	X-ray fluorescence (XRF)	AS 1038 14.3 ASTM D4326 ISO/TS 13605	
		Moisture holding capacity	Classical	AS 1038.17	
		Mercury	Atomic absorption spectroscopy (AAS)	ASTM D6722	
		Dilatation	Audibert-Arnu dilatometer; Classical;	AS 1038.12.3 (2002) Dilatometer BS 1016.107.3 Dilatometer ISO 23873 Dilatometer ISO 349	



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				(1975) Audibert-Arnu Dilatometer	
		Ultimate analysis	Classical	AS 1038.6.4 ASTM D5373 BS ISO 29451 ISO 29451	
	Coal; Coke;	Chlorine	Eschka method	AS 1038.8.1 ISO 587	
		Sulfur - Total	Infrared (IR)	AS 1038.6.3.3 BS ISO 19579 ISO 19579 ASTM D4239	
		Arsenic; Selenium;	Atomic absorption spectroscopy (AAS)	AS 1038.10.2 (1998) ISO 11723 (2016)	
		Volatile matter	Classical	AS 1038.3 (2000) ISO 562	
		Ash	Classical	AS 1038.3 (2000) ASTM D3174 ISO 1171	
		Ash fusibility	Classical	AS 1038.15 (1995) ASTM D1857 BS ISO 540 ISO 540	
		Fixed carbon	Classical	AS 1038.3 (2000) ASTM D3172 ISO 17246 BS ISO 17246	
		Gross calorific value	Classical	AS 1038.5 (1998) ASTM D5865 ISO 1928 BS ISO 1928	
		Carbonate carbon	Classical	AS 1038.23 (2002) BS 1016.106.7 ISO 925 (1997)	
		Relative density (specific gravity)	Classical	AS 1038.21.1.1	
		Moisture	Classical	AS 1038.3 (2000) ASTM D3173	

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				BS ISO 11722 ISO 11722	
		Bromine	Ion chromatography (IC)	in house CBM L020c	
			Pyrohydrolytic combustion		
Sample collection	Coals, coke, charcoal and related products	Precision of sampling, sample preparation and testing	Mechanical sampling	AS 4264.1 AS 4264.4 AS 4264.5 ASTM D2013 ISO 13909.1 ISO 13909.2 ISO 13909.3 ISO 13909.4 ISO 13909.8 ISO 21398 BS ISO 13909.1 BS ISO 13909.2 BS ISO 13909.3 BS ISO 13909.4	
		sample plant inspection			

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