Name: South China National Centre of Metrology/Guangdong Institute of Metrology

Address: 1&13/F., Building B, Area A, No.25, South Side, Huanshi Road, Guangzhou, Guangdong, China

Registration No. CNAS L0730

Accreditation Criteria: ISO/IEC 17025:2017 and relevant requirements of CNAS

Effective Date: 2025-11-06 Expiry Date: 2029-10-21

SCHEDULE 5 ACCREDITED CALIBRATION AND MEASUREMENT CAPABILITY SCOPE

Note: The instruments with * represents onsite calibration can be performed.

№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
68 Chemistry Measuring Instrument							
6802 Chromatographs							
1	*Gas Chromatographs	Sensitivity	V.R.of Gas Chromatographs JJG700	TCD:(Benzene and methane):≥ 800mV • mL/mg	U_{rel}=15%		
		Detection limit		FID:(N-cetane and methane):≤5ng/s	U_{rel}=15%		
				FPD:(sulfur)≤0.5ng/s; (phosphorus)≤0.1ng/s	U_{rel}=15%		
				NPD:(nitrogen)≤5pg/s; (phosphorus)≤10pg/s	U_{rel}=15%		
				ECD:(Gamma Hexachlorocyclohexane，Benzene Hexachlorate):≤5pg/mL	U_{rel}=15%		

The scope of the accreditation in Chinese remains the definitive version.

№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
2	*On-line Gas Chromatographs	Sensitivity	V.R.of On-lineGasChromatograph JJG1055	TCD：≥ 1000mV • mL/mg （Normal butane）	U_{rel}=4%		
6805 Moisture Testers							
1	*Thermogravimetric Moisture Meters	Quality	V.R.ofThermogravimetric Moisture Meters JJG658	10mg～50g	U=0.2mg		
				(50～500)g	U=(0.2～2)mg		
		Water content		0.01%～100%	U=0.03%		
6808 Gas, dust and particle analyzers							
1	*Ammonia Gas Detectors	Concentration	V.R.of Ammonia Gas Detectors JJG1105	(0.1～100) μ mol/mol	U_{rel}=3.3%		
2	*Electrochemical Oxygen Meters	Concentration	V.R.of Electrochemical Oxygen Meter JJG365	(0.1~100)×10^{-2}mol/mol	U=1.1%FS		
3	*Sulfur Dioxide Gas Detectors	Concentration	V.R.of Sulfur Dioxide Gas Detectors JJG551	(1～2000) μ mol/mol	U=1.6%FS		
4	*Alarmer Detectors of Combustible Gas	Concentration	V.R.of Alarmer Detectors of Combustible Gas JJG693	methane、isobutane：(0～100) %LEL	U=1.3%FS		
5	*Sulfur Hydrogen Gas Detectors	Concentration	V.R.of Sulfur Hydrogen Gas Detectors JJG695	(0.1～100) μ mol/mol	U_{rel}=2.6%		
6	*Alarmer Detectors of Sulfur Hexafluoride	Concentration	C.S.for the Alarmer Detector of Sulfur Hexafluoride JJF1263	(0.1～1000) μ mol/mol	U_{rel}=1.9%		
7	*Paramagnetic Oxygen Analyzers	Concentration	V.R.of Paramagnetic Oxygen Analyzer JJG662	(0.1～100)×10^{-2}mol/mol	U=1.1%FS		
8	*Micro Oxygen Analyzers	Concentration	V.R.of Micro Oxygen Analyzers JJG945	(100～1000) μ mol/mol	U=1.1%FS		

№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
9	*Flue Gas Analyzers	Concentration	V.R.of Flue Gas Analyzers JJG968	O_2:(0.1~25)×10^{-2}mol/mol	U_{rel}=1.8%		
				CO:(0.1~2000) μmol/mol	U_{rel}=1.8%		
				SO_2:(0.1~2000) μmol/mol	U_{rel}=2.2%		
				NO:(0.1~2000) μmol/mol	U_{rel}=1.8%		
10	*Zirconia Oxygen Analyzers	Concentration	V.R.of Zirconia Oxygen Analyzers JJG535	(0.1～100)×10^{-2}mol/mol	U=1.1%FS		
11	*Carbon Monoxide and Carbon Dioxide Infrared Gas Analyzers	Concentration	V.R.of Carbon Monoxide and Carbon Dioxide Infrared Gas Analyzer JJG635	CO:(0.1～2000) μmol/mol	U=1.3%FS		
				CO_2:(0.01～20)×10^{-2} mol/mol	U=1.3%FS		
12	*Carbon Monoxide Detectors	Concentration	V.R.of Carbon Monoxide Detectors JJG915	(0.1～2000) μmol/mol	U_{rel}=1.8%		
6810 Thermochromic Analyzers							
1	*Industrial Analyzers	Ash Component	V.R.of Industrial Analyzers JJG1140	(8～15)%	U=0.15%		
				(15～30)%	U=0.23%		
				(30～35)%	U=0.34%		
		Volatile Component		(4～20)%	U=0.21%		
				(20～40)%	U=0.46%		
2	*Bomb Calorimeters	Calorific value	Verification Regulation of Bomb Calorimeters JJG672	(26430～26490)J/g	U=40J/g		
6812 Elemental Analyzers							

The scope of the accreditation in Chinese remains the definitive version.

№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
1	*Determinators of Fluorine/Chlorine in Coal	Content	C.S.for Determinators of Fluorine/Chlorine in Coal JJF1968	Fluorine: (50~500) μg/g	U=20 μg/g		
				Fluorine: (500~2000) μg/g	U_{rel}=2.6%		
				Chlorine: (0.010~0.050)%	U=0.005%		
				Chlorine: (0.050~0.300)%	U_{rel}=11%		
2	*Determinators for Total Sulfur in Coal	Sulfur content	Determinators for Total Sulfur in Coal JJG1006	(0.1～1.00)%	U=0.03%		
				(>1.00~4.00)%	U=0.07%		
				(>4.00~6.00)%	U=0.10%		
3	*Carbon, hydrogen and nitrogen analyzers	Carbon, hydrogen and nitrogen content in coal	C.S.for Elemental Analyzers JJF1321	C:(68～80)%	U_{rel}=1.2%		
				H:(2～5)%	U_{rel}=2.8%		
				N:(0.8～2)%	U_{rel}=5%		
6899 Other Chemistry Measuring Instrument							
1	*Hardgrove Grindability Index Determinators	Hardgrove Grindability Index	C.S.for Hardgrove Grindability Index Determinators JJF(湘)48	35～119	U=3		