

ANNEXURE A
SCOPE OF ACCREDITATION
MASS METROLOGY

Accreditation Number: CAL 103-14-00

<u>Permanent Address of Laboratory:</u> Micron Laboratory Services (Pty) Ltd Mass Calibration Laboratory 9 Beatty Avenue Witbank 1039 <u>Postal Address:</u> Postnet Suite 139 Private Bag X 7260 Witbank 1035 Tel: (013) 690-1532 Mobile: 082 555 6508 E-mail: brenden@mlabs.co.za		<u>Technical Signatory:</u> Mr R B Howell <u>Nominated Representative:</u> Mr R B Howell Issue No.: 17 Date of Issue: 22 February 2024 Expiry Date: 31 July 2027		
ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	METHOD / PROCEDURE
1	MASS			
1.1	Mass Standard			
1.1.1	Mass Standard (Weights <100 kg)	1 mg to 10 mg 10 mg to 100 mg 100 mg to 1 g 1 g to 10 g 10 g to 50 g 50 g to 100 g 100 g to 200 g 200 g to 1 kg 1 kg to 10 kg 10 kg to 20 kg	4 μ g 6 μ g 12 μ g 30 μ g 50 μ g 0,1 mg 0,2 mg 2,0 mg 20 mg 0,2 g	Calibration using the single substitution method.
1.2	Weighing Equipment			
1.2.1	Digital Self Indicating	0 g to 1 g 1 g to 10 g 10 g to 200 g 200 g to 1 kg 1 kg to 5 kg 5 kg to 30 kg 30 kg to 100 kg 100 kg to 1 000 kg	20 μ g 50 μ g 0,00012 % 0,0003 % 0,0006 % 0,001 % 0,005 % 0,01 %	Evaluation of linearity, eccentricity and repeatability using standard weights.
1.2.2	Mechanical Self Indicating	0 kg to 1 000 kg	0,03 %	
1.2.4	Non and Semi-Self Indicating	0 kg to 1 000 kg	0,03 %	
2	On-site calibration of items 1.1 & 1.2 above			

Original Date of Accreditation: 1994

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The CMC, expressed as an expanded uncertainty of measurement, is stated as the standard uncertainty of measurement multiplied by a coverage factor $k = 2$, corresponding to a confidence level of approximately 95%

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Accreditation Manager