



CERTIFICATE OF ACCREDITATION

In terms of section 22(2) (b) of the Accreditation for Conformity Assessment, Calibration and Good Laboratory Practice Act, 2006 (Act 19 of 2006), read with sections 23(1), (2) and (3) of the said Act, I hereby certify that:-

RAPID INSTRUMENTATION (PTY) LTD
Co. Reg. No.: 2021/960031/07
FORCE CALIBRATION LABORATORY

Accreditation Number: **CAL 066-08-00**

is a South African National Accreditation System Accredited Calibration Laboratory
provided that all SANAS conditions and requirements are complied with

This certificate is valid as per the scope as stated in the accompanying scope of accreditation
Annexure "A", bearing the above accreditation number for

FORCE METROLOGY

The facility is accredited in accordance with the recognised International Standard

ISO/IEC 17025:2017

The accreditation demonstrates technical competency for a defined scope and the operation of a
laboratory quality management system

While this certificate remains valid, the Accredited Facility named above is authorised to use the
relevant SANAS accreditation symbol to issue facility reports and/or certificates

Mr F Osman
Acting Chief Executive Officer

Effective Date: 17 October 2024
Certificate Expires: 19 September 2027

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ANNEXURE A

SCOPE OF ACCREDITATION

FORCE METROLOGY

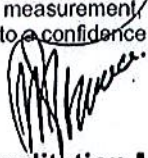
Accreditation Number: CAL 066-08-00

Permanent Address of Laboratory: Rapid Instrumentation (Pty) Ltd 38, 1st Avenue Boston Bellville 7530 Postal Address: P O Box 1050 Oakdale 7535 Tel: (021) 948-0413 Fax: (021) 948-0435 E-mail: laboratory@rapidza.co.za		Technical Signatory: Mr T Thomson Nominated Representative: Mr D Theunissen Issue No.: 04 Date of Issue: 17 October 2024 Expiry Date: 19 September 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
4	FORCE			
4.1	Compression			
4.1.1	Force Measuring devices	10; 20; 30; 40 & 50 N 50 N to 2 000 kN	0,2 % 0,5 %	Calibration by direct comparison against dead-weights or a discrete reference force transducer.
4.1.2	Uniaxial Testing Machines	10; 20; 30; 40 & 50 N 50 N to 2 000 kN	0,2 % 0,5 %	Calibration by comparison against dead-weights or reference force transducer placed in the testing machine.
4.2	Tension			
4.2.1	Force Measuring devices	10; 20; 30; 40 & 50 N 50 N to 1 000 kN	0,2 % 0,5 %	Calibration by direct comparison against dead-weights or a discrete reference force transducer.
4.2.2	Uniaxial Testing Machines	10; 20; 30; 40 & 50 N 50 N to 1 000 kN	0,2 % 0,5 %	Calibration by comparison against dead-weights or reference force transducer placed in the testing machine.

Original Date of Accreditation: 08 December 2020

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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%


 Accreditation Manager

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ANNEXURE A

Accreditation No.: CAL 066-08-00

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4.3	Rate of Applied Force			
4.3.1	Uniaxial Testing Machines	40 kN/min to 100 kN/min 100 kN/min to 500 kN/min	7,0 kN/min 16 kN/min	Calibration by calculation of force measured using a reference force transducer over time, measured using a reference stopwatch.
4.4	Displacement			
4.4.1	Uniaxial Testing Machines	2 mm to 100 mm 100 mm to 500 mm	0,03 mm 0,07 mm	Calibration by direct comparison against a reference height gauge/vernier.
4.5	Speed			
4.5.1	Uniaxial Testing Machines	2 mm to 500 mm/min	0,5 mm/min	Calibration by calculation of displacement measured with a reference height gauge/vernier over time, measured using a reference stopwatch.
9.0	ON-SITE CALIBRATION			
	On-site calibration for item 4.1, 4.2, 4.3, 4.4 and 4.5			

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ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM



Accreditation Manager

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