

ACCREDITATION SCHEME FOR
LABORATORIES



Number : LA-2022-0818-C
Date of Issue : 17 October 2022
Date of Expiry : 16 October 2026

Certificate of Accreditation

This certifies that

ZWICKROELL PTE. LTD.
18 Boon Lay Way
#06-105 TradeHub 21
Singapore 609966

is accredited by the Singapore Accreditation Council to

ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories

within the field/programme of

Calibration & Measurement

for the specific scope as detailed in the attached schedule.

On behalf of the Singapore Accreditation Council
Tan Kai Hoe
Chairman

This Certificate is awarded subject to the organisation's compliance with the stated criteria and terms and conditions laid down by the Singapore Accreditation Council.

This Certificate may not be reproduced except with the written permission of the Chairman.

This is an electronically generated certificate, hence does not require a signature.

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Schedule

ZwickRoell Pte. Ltd.
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06-105
TradeHub 21
Singapore 609966

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FIELD OF TESTING : Calibration and Measurement

METHOD	MEASURED QUANTITIES / INSTRUMENTS / RANGE TO BE CALIBRATED	CALIBRATION AND MEASUREMENT CAPABILITY (CMC*)
A. Mechanical		
1. ZRSG-02-WP001 Rev 01 site/overseas site WP	Impact Tester	
a) ISO 13802: 2015 ASTM D 256: 2018	Plastic Material (up to 50J)	
	Center Of Percussion	0.4%
	Potential Energy	0.5%
	Error in Indicated Energy	0.02%
b) ZRSG-02-WP001 Rev 01 site/overseas site WP	Metallic Material	
ISO 148-2: 2016 ASTM E23: 2018	(Up to 450J)	
	Center Of Percussion	0.01%
	Potential Energy	0.11%
	Error in Indicated Energy	0.02%

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METHOD	MEASURED QUANTITIES / INSTRUMENTS / RANGE TO BE CALIBRATED	CALIBRATION AND MEASUREMENT CAPABILITY (CMC*)
B. Velocity ZRSG-02-WP003 Rev 01: site/overseas site WP ASTM E2658	Material Testing Machine crosshead/actuator speed 0.5 to 1000mm/min	0.000257mm/min
C. Extrusion Plastometers ZRSG-02-WP002 Rev 01 site/overseas site WP ISO1133-1 ISO1133-2 ASTM D1238-20	Load Up to 21.6kg Temperature Up to 390°C Displacement Up to 50mm Time	0.15% 0.061°C 0.003mm 0.258s

*CMC is expressed as an expanded uncertainty estimated at a level of confidence of approximately 95 %.

Note: Overseas Site calibration performed under ZwickRoell Pte Ltd legal entity with supervision from Singapore laboratory.

Approved signatories:

Matthew Smith) for A, B, C
Radin Fadzakir)

Jeremiah Espiritu) A & C
Tan Kai Yi Alex)

Note :

This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025. A laboratory's fulfilment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001.