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South African National Accreditation System

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:-

FRANKTECH METALLURGICAL SERVICES
A Division of
FRANKWEN FORGE (PTY) LTD

Co. Reg. No.: 1971/010346/07

Facility Accreditation Number: **T0244**

is a South African National Accreditation System accredited facility
provided that all conditions and requirements are complied with

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

MECHANICAL AND PHYSICAL TESTING

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 quality management system

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

Mr T Baleni
Acting Chief Executive Officer

Effective Date: 30 December 2021
Certificate Expires: 29 December 2026

ANNEXURE A

SCHEDULE OF ACCREDITATION

Facility Number: **T0244**

Permanent Address of Laboratory:

Franktech Metallurgical Services
ADivision of Frankwen Forge (Pty)Ltd
No. 43 Liverpool Rd
Benoni South
Benoni
1502

Postal Address:

PO Box 10583
Aston Manor
1630

Tel: (011) 746 9200
Fax: (011) 749 0680
E-mail: garethh@frankwenforge.co.za

Technical Signatories:

Ms N Mothlajoe
Mr G Henning
Mr S Dyantyi (Excluding Corrosion & Inclusion Content)

Nominated Representative:

Mr G Henning

Issue No.: 21
Date of Issue: 17 April 2025
Expiry Date: 29 December 2026

Materials / Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Techniques / Equipment Used
Mechanical Testing		
Metallic Materials	**Tensile Testing:**	
	Ultimate tensile strength	ASTM E8:2016
	0.2 % Proof stress	ISO 6892-1:2016(MCP08)
	Reduction of area	
	Percentage Elongation	
	Hot tensile testing up to 600°C	ISO 6892-2:2016 (MCP08) ASTM E21:2020 (MCP08)
	Impact Testing	
	Joules absorbed (-40°C to room temperature)	ASTM E23:2018 (MCP10) ISO 148-1:2016
	Lateral expansion	
	Percentage shear	
	Hardness Testing:	
	Brinell (3 000 kg)	ASTM E10:2018(MCP03) BS EN ISO 6506-1:2018
	Vickers (10 kg) (30 kg)	ASTM E92:2017 (MCP01) BS EN ISO 6507-1:2018
Welded Test Plates	**Bend Testing:**	
		ASME IX
		AWS D1. 1-1.6
		BS EN ISO 15614:2017
		ASTM E290

Stainless Steel Samples	**Corrosion Testing:**	ASTM A923-14 Method A & C (MCP06) ASTM A262:2015 Practice E (MCP 06) ASTM A262:2015 Practice C (MCP 22)
Metallurgical	**Metallography and Grain size Evaluation**	ASTM E112-13:2013 (MCP23) Chart (Comparison Method)
Metallic materials (Ferrous & non Ferrous)	Inclusion Content	ASTM E45:2013
Chemical	Laboratory spectrograph chemical analysis for the determination of C, Mn, P,S, Cu, Ni, Mo, Nb,V, Ti, Al, B, Si, Sn, Ca, Zr, Sb, Pb and N by OES	ASTM E415 (MCP 19)

Original Date of Accreditation: 01 December 2006

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

Accreditation Manager