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 SERVICE 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 17025:2005

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 R Josias
Chief Executive Officer

Effective Date: 30 December 2016 Certificate Expires: 29 December 2021 Facility Number: T0244

ANNEXURE A

SCHEDULE OF ACCREDITATION

Facility Number: T0244

Permanent Address of Laboratory: <u>Technical Signatories:</u>

Franktech Metallurgical Service, A Division of Frankwen Mr JD Henning

Forge (Pty) Ltd Mr R Pollhammer No. 43 Liverpool Rd Ms KD Letlole

Benoni South

Mr JB Mohr (Excluding Corrosion Testing)

Benoni

Postal Address: Nominated Representative:

PO Box 5167 Mr B Gouws

Benoni South

1502

<u>Tel:</u> (011) 746 9200 <u>Issue No.:</u> 11

Fax:(011) 749 0680Date of Issue:30 December 2016E-mail:buddyg@frankwenforge.co.zaExpiry Date:29 December 2021

Materials / Products Tested	Type of Tests / Properties Measured,	Standard Specifications, Techniques / Equipment Used
	Range of Measurement	

Metallic Materials

Tensile Testing:

Ultimate tensile strength ASTM EB 0.2 % Proof stress ISO 6892-1

Reduction of area
Percentage Elongation
Hot tensile testing up to 600

Hot tensile testing up to 600°C

Impact Testing

Joules absorbed ASTM E23 Lateral expansion ISO 148-1

Percentage shear

Hardness Testing:

Brinell (3 000 kg) ASTM E10

BS EN ISO 6506-1

Vickers (10 kg) ASTM E92-82-03

(30 kg) BS EN ISO 6507-1

Welded Test Plates Bend Testing:

ASME1X

AWS D1. 1-1.6 BS EN ISO 15614

ASTM E290

Stainless Steel Samples Corrosion Testing:

ASTM A923-06 method A and C

(MCP06)

Facility Number: T0244

ASTM A262-02aE1 Practice E

(MCP 06)

ASTM A262-02aE1 Practice C

(MCP 22)

Low/High Alloy and Stainless Steel Samples **Grain Size Testing:**

ASTM E112-96E

(Chart Comparison Method)

Original Date of Accreditation: 01 December 2006

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

Accreditation Manager