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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:-

METALLURGICAL TESTING LABS (PTY) LTD

Co. Reg. No.: 2012/027591/07

Facility Accreditation Number: **T0580**

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: 04 December 2017
Certificate Expires: 03 December 2022

ANNEXURE A

SCHEDULE OF ACCREDITATION

Facility Number: **T0580**

Permanent Address of Laboratory:

Metallurgical Testing Labs (Pty) Ltd
13 Betschana Road
Sebenza
Edenvale
1610

Postal Address:

PO Box 2376
Edenvale
1610

Tel: (011) 452 4541
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E-mail: graham@mtlabs.co.za

Technical Signatories:

Mr M Tudor
Mr GJ Knight
Mr M Lemmer
Mr M Mathebula
Mr JM Lumba

Nominated Representative:

Mr GJ Knight

Issue No.: 07
Date of Issue: 09 November 2017
Expiry Date: 03 December 2022

Materials / Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Techniques / Equipment Used
MECHANICAL	**Tensile Testing up to 600kN**	
Ferrous and Non-Ferrous Materials	Upper Yield, 0.2%, 0.5%, 1.0% proof stress U.T.S Elongation	Mech001, Mech012, Mech001.2 in accordance with ASTM E8/E8M, BS EN ISO 6892-1 Method A & B, BS EN 10002-1, SANS 6269, DVS 1 – 837
	Elevated/ Hot Tensile up to 1000 C	Mech001.1 in accordance with BS EN 10002-5, ASTM E21
	Flattening Flaring Testing	Mech004 in accordance with ASTM A450 & ASTM A530
	Bend Test	Mech004 in accordance with ASME IX: AWS D1.1 EN ISO 15614-1. SANS 15614-2: ASTM E290, ISO 14555
	Hardness Testing	
	Brinnel	Hard001 in accordance with ASTM E10 BS EN ISO 6506-1
	Vickers	Hard001 in accordance with ASTM E92, ASTM E384, BS EN ISO 6507-1
	Impact Testing	Mech002 in accordance with SANS 148-1 ASTM E23, ASTM A370, BS EN 10045-1
CHEMICAL		
Ferrous and Non-Ferrous Metals	Spectrographic Analysis including Nitrogen	Chem001 in accordance with ASTM E415

METALLURGICAL

Ferrous and Non-Ferrous Materials	Grain size determination	Met005 in Accordance with ASTM E112 ISO 643
	Inclusion content	Met004 in accordance with ASTM E45
	Macro Examination	Met001 and Met003 in accordance with BS EN ISO 5817, ASME IX, AWS D1.1, AWS D1.6

Original Date of Accreditation: 04 December 2012

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

Accreditation Manager