



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 Testing Laboratory
provided that all SANAS 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
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 R Josias
Chief Executive Officer



ANNEXURE A

SCHEDULE OF ACCREDITATION

Testing Laboratory Number: T0580

<p>Permanent Address of Laboratory: Metallurgical Testing Labs (Pty) Ltd 13 Betschana Road Sebenza Edenvale 1610</p> <p>Postal Address: P O Box 2376 Edenvale 1610</p> <p>Tel: (011) 452-4541 Fax: (011) 452-4621 Mobile: 082 779 6777 E-mail: graham@mtlabs.co.za technical@mtlabs.co.za</p>	<p>Technical Signatories:</p> <p>Mr M Tudor (All methods) Mr GJ Knight (All methods) Mr S Magagula (Excluding flattening test) Mr M Mathebula (Excluding flattening test)</p> <p>Nominated Representative:</p> <p>Mr GJ Knight</p> <p>Issue No.: 03 Date of issue: 01 September 2014 Expiry date: 03 December 2017</p>	
Materials/Products Tested	Type of Tests/Properties Measured, Range of Measurement	Standard Specifications, Equipment/Techniques Used
<p>MECHANICAL Ferrous and Non-Ferrous Materials</p>	<p>Tensile Testing up to 300kN Upper Yield, 0.2%, 0.5%, 1.0% proof stress U.T.S</p> <p>Elongation</p> <p>Flattening Testing</p> <p>Bend Test</p> <p>Elevated/ Hot Tensile up to 1200 °C</p> <p>Hardness Testing Brinell</p> <p>Vickers</p> <p>Charpy Impact Testing up to 300 Joules</p>	<p>ASTM E8/E8M:2009 BS EN ISO 6892-1:2009 Method A & B, BS EN 10002-1:2001, SANS 6269</p> <p>ASTM A450:2010 & ASTM A530:2010</p> <p>ASME IX:2013, AWS D1.1:2010 EN ISO 15614-1:2004, SANS 15614-2:2007 ASTM E290:2009</p> <p>BS EN 10002-5, ASTM E21</p> <p>ASTM E10:2010 BS EN ISO 6506-1:2005</p> <p>ASTM E92:2003, ASTM E384:2010 BS EN ISO 6507-1:2005</p> <p>SANS 148-1:2007 ASTM E23:2007a ASTM A370:2005 BS EN 10045-1:1990</p>

Original date of accreditation: 04 December 2012

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Field Manager

ANNEXURE A

Facility No.: T0580
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Materials/Products Tested	Types of Tests/Properties Measured, Range of Measurement	Standard Specifications, Equipment/Techniques Used
<u>METALLURGICAL</u> Ferrous and Non-Ferrous Materials	Grain size determination Inclusion content Macro Examination	ASTM E112:2004; ISO 643:2006 ASTM E45:2005 BS EN ISO 5817:2007, ASME IX:2013, AWS D1.1:2010, AWS D1.6:2007
<u>CHEMICAL</u> Ferrous and Non-Ferrous Metals	Spectrographic Analysis including Nitrogen	ASTM E415: 2005, CHEM 001

Original date of accreditation: 04 December 2012

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ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM


Field Manager