



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:-

ARCELOR MITTAL SOUTH AFRICA LTD

Co. Reg. No.: 1989/003164/06

NEW CASTLE

Facility Accreditation Number: **T0165**

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


CHEMICAL ANALYSIS, METALLURGICAL AND MECHANICAL 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

Effective Date: 05 July 2013

Certificate Expires: 04 July 2018



ANNEXURE A

SCHEDULE OF ACCREDITATION

Facility Number: T0165

<p>Permanent Address of Laboratory: Arcelor Mittal (Pty) Ltd Newcastle Works Iscor Rd Newcastle</p> <p>Postal Address: P O Box 2 Newcastle 2940</p> <p>Tel: (034) 314-8467 Fax: (034) 314-8211 E-mail: Edmund.Khumalo@arcelormittal.com</p>	<p>Technical Signatories: Mr E Khumalo (All Methods) Mr V Surajlal (Mechanical) Mr CJ van Rensburg (ASTM E415) Mr FA Hadebe (Chemical) Ms ZB Luhkele Mr J Du Plessis</p> <p>Nominated Representative: Mr E Khumalo</p> <p>Issue No.: 13 Date of Issue: 11 July 2013 Expiry Date: 04 July 2018</p>	
Materials / Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Equipment / Technique Used
<p>Chemical</p> <p>Metallic materials: Alloy & Carbon Steels</p> <p>Metallurgical</p> <p>Metallic materials: Alloy & Carbon Steels</p>	<p>The determination of C, Mn, P, S, Cu, Ni, Cr, Mo, Nb, V, Ti, Al, B, Si, Sn, Ca, As, Sb, Pb, and N by OES</p> <p>The determination of C, N and S by LECO</p> <p>Determination of Grain size</p> <p>Decarburisation</p> <p>Inclusions</p> <p>Inclusions type SS, OA, OS, OG</p>	<p>ASTM E – 415</p> <p>ASTM E – 1019</p> <p>ASTM E 112 Comparison Method</p> <p>ASTM E 1077</p> <p>ASTM E 45 Method A</p> <p>DIN 50 602 Method K4</p>

Original Date of Accreditation: 31 July 2003

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Field Manager

ANNEXURE A

Facility No.: T0165
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Materials / Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Equipment / Technique Used
<p><u>Mechanical</u></p> <p>Metallic materials: Alloy & Carbon Steels</p>	<p><u>Tensile Testing</u> Yield; UTS; Elongation; Reduction in Area & 0,2% Proof Stress</p> <p><u>Hardness Testing</u> Brinell Rockwell C Scale</p> <p><u>Steel for reinforcement of concrete</u> Determination of percentage total elongation at maximum force Bend Tests Re-bend Tests</p> <p><u>Metallic Material Test</u></p> <p><u>Steel – Hardenability test by end quenching</u> Jominy Test</p>	<p>ISO 6892-1</p> <p>ASTM E 10 ASTM E 18</p> <p>ISO 15630-1 clause 5 ISO 15630-1 clause 6 ISO 15630-1 clause 7</p> <p>BS EN ISO 148-1</p> <p>ISO 642 clause 8 only</p>

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ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM



Field Manager