

**ANNEXURE A**  
**SCHEDULE OF ACCREDITATION**

Facility Number: **T0013**

**Permanent Address of Laboratory:**

Columbus Stainless (Pty) Ltd  
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Middelburg  
1050

**Technical Signatories:**

Ms FT Motau (Chemistry & Spectrochemical)  
Mr EM Seedat (Chemistry)  
Ms CJE Hattingh (Chemistry)  
Mr HJ Lamprecht (Mechanical & Metallurgical)  
Mr K Nkosi (Chemistry)  
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Material or Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Techniques / Equipment Used
<b>SPECTROCHEMICAL</b>		
Stainless Steel	Determination of Co, Cr, Cu, Mn, Mo, Nb, Ni, P, S, Si, V, Ti, by XRF Spectroscopy	ILB-TEST-219
	Determination of Al, B, Sn, C, N Spark Emission Spectroscopy	ILB-TEST-219
	Determination of C by Leco	ILB-TEST-221
	Determination of N by Leco	ILB-TEST-222
High Carbon Ferrochromium	Determination of C and S by Leco	ILB-TEST-221
<b>CHEMICAL</b>		
High Carbon Ferrochromium	Determination of Al <sub>2</sub> O <sub>3</sub> , Fe, Mn, Si by ICP-OES	WLB-TEST-205
	Determination of Cr by Autotitration	WLB-TEST-347
Process/boiler effluent and Pollution, Control Water	Determination of Chemical Oxygen Demand (COD)	WLB-TEST-009

Determination of Conductivity by Autotitration	WLB-TEST-311
Determination of pH by Autotitration	WLB-TEST-313
Determination of Fluoride by Autotitration	WLB-TEST-312
Determination of Cr, Mn, Na, Mg by ICP-OES	WLB-TEST-016
Determination of the following using Aquakem:	
NO <sub>2</sub> <sup>-</sup>	WLB-TEST-337
NO <sub>3</sub> <sup>-</sup>	WLB-TEST-336
Cr <sup>6+</sup>	WLB-TEST-341
SO <sub>4</sub> <sup>2-</sup>	WLB-TEST-335
PO <sub>4</sub> <sup>3-</sup>	WLB-TEST-340
Cl <sup>-</sup>	WLB-TEST-334

**MECHANICAL**

Metallic materials  
Austenitic & Ferritic

<b>Tensile Testing</b> (up to 250KN) (At ambient temperature) 0,2% Proof Stress 1,0% Proof Stress UTS Elongation	ISO 6892-1, ASTM E8 M
Impact Charpy (up to 406J)	ISO 148-1, ASTM E23
<b>Hardness Testing</b> (Laboratory)	
Vickers method	ISO 6507-1, ASTM E384
Rockwell method	ISO 6508-1, ASTM E18

**METALLURGICAL**

Metallic material

Austenitic, Ferritic & Duplex  
Stainless Steels

Grain Size & Microstructure	ASTM E112 (comparison method)
Inter-granular corrosion test-Austenitic	ASTM A262 (practice A & E)
Inter-granular corrosion test-Ferritic	ASTM A763 (practice W & Z)
Detrimental Intermetallic Phase in Duplex	ASTM A923

Original Date of Accreditation: 01 November 1992

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

  
 Accreditation Manager