

South African Institute of Welding Course Prospectus 2026

Laboratory

Services	Equipment
Mechanical testing	
Tensile & Bend testing	MTS Criterion 64.305 (300 kN)
Charpy V notch impact testing	450 joule SANS Charpy impact test machine
Vickers Hardness Testing	innovatest Fenix (10 grams to 10 kg load)
Chemical Testing	
Spectrophic Analysis	Bruker Q2 Ion spectrometer
X-Ray fluorescence analysis (XRF)	Bruker S1 Titan XRF analyser
Metallurgical Testing	Non-Destructive Testing
Microstructural Evaluation	Visual Examination
Macrostructural Evaluation	Radiographic Testing
	Liquid Penetrant Testing
	Magnetic Particle Testing



The SAIW material testing laboratory, **laboratory number TO693**, is accredited by SANAS to comply with ISO 17025.

The SAIW material testing laboratory is managed by a team of qualified and experienced metallurgists.



For more information, please contact the administrator on mat.lab@saiw.co.za or on 011 298 2104

www.saiw.co.za

Please refer to contacts on page 16



Laboratory

Tests	Price	
Chemical Analysis		
Spectrographic analysis (Fe base)	R 490	
Spectrographic analysis (Al, Cu base)	R 551	
On-Site Material Analysis (XRF Analysis)		
Call-out Fee (within Gauteng)	R 2 993	
Per Material Analysis	R 121	
Tensile Test (Cutting, Machining and Testing)		
< 25mm thick specimen	R 723	
≥ 25mm thick specimen	R 915	
Bend Test (Cutting, Preparation and Testing)		
≤ 10mm thick specimen	R 416	
> 10mm thick specimen	R 512	
Nick Break Test / Fracture Test		
≤ 10mm thick specimen	R 512	
> 10mm thick specimen	R 512	
Impact Test (Machining, notching and testing per set of 3)		
Room Temperature (>0°C)	R 832	
≥ -100°C to ≤0°C	R 1 037	
< -100°C	R 1 441	
Impact Test (Machining, notching and testing per set of 5) Consumable/Wire testing		
Room Temperature (> 0°C)	R 1 386	
≥ -100°C to ≤0°C	R 1 716	
< -100°C	R 2 400	
Hardness Testing		
Single Point (3 indents)	R 205	
Weld Hardness Traverse (PM,HAZ,WM,HAZ,PM – 15 indents)	R 832	
Macro with hi-resolution digital photograph	R 653	
Micro- structural analysis	R 1 305	
Post Weld Heat Treatment		
short cycle 1-3 hrs temp below 750°C	R 793	
long cycle 4-6 hrs temp below 750°C	R 1 037	
From 6 Hours (Per hour)	R 210	

All prices above are exclusive of VAT. Prices may be revised without notice.

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23