



MATERIAL TESTING Laboratory

SAIW has a material testing laboratory on site

The facility is fully equipped to perform mechanical, metallurgical, and in-house non-destructive testing (NDT) on welds and metallic samples. Our material testing laboratory provides comprehensive testing and consulting services to various industries. These services include weld procedure qualification, welder qualification, welding consumable testing, failure analysis, welding-related research and development, and positive material identification.

www.saiw.co.za

Please refer to contacts on page 26

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MATERIAL TESTING 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	emcoTEST Durascan 70 (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

