



*South Africa's leading expert consultants in Matlab and Asset Management Services*

**MATLAB**

METALLURGICAL LABORATORY

- Gain maximum return on your assets
- Mitigate loss of production
- Reduce the threat of industrial accidents and loss of life
- Comply with legislation
- Create a safe and productive working environment
- Reduce operational expenses
- Know the remaining life-of-plant

[www.sebenzana.com](http://www.sebenzana.com)

*Sebenzana APP has developed a team of metallurgical engineers with the knowledge and extensive experience to provide all aspects of metallurgical support services for industry.*

With our own fully-equipped laboratory, Sebenzana APP is able to provide dedicated support for the detection, evaluation and remaining life prediction of high-temperature damage components for industry using the metallurgical replication method. In addition, Sebenzana APP performs comprehensive metallurgical investigations into in-service failures or product-related non-conformances, assessing and interpreting test results, the evaluation of microstructures and provides recommendations and advice on appropriate preventative measures.

*Sebenzana APP has access to certified laboratories with NDT facilities that are specialised in performing most advanced chemical and metallurgical testing, including the backing and support of highly-skilled and experienced consultants to interpret test results.*



## Lab Testing and Processing

Get maximum return on your investment

Our metallurgical advisory experts are highly skilled in the management of high-value assets and the extraction of maximum benefits to provide industry with the best available analysis to eliminate loss of production, reduce accidents and increase value to shareholders.

Our multidisciplinary team includes experienced professionals with diverse backgrounds ranging from replica assessment, maintenance, risk management, production, operations, technical and finance.

## Metallurgical Assessments

Manage equipment, material and overall plant risk levels

High temperatures and related creep and graphitization can cause major equipment and material problems, including life-threatening failures. As South Africa's leading Risk-Based Inspection (RBI) implementation experts, we provide comprehensive expertise, tools and analysis to effectively manage plant maintenance and risk, including the testing of various metal and nonmetal products to save time and money. Our RBI programmes are internationally acknowledged to reduce dangerous plant equipment failure and associated costly downtime.

## Failure Investigations

Avoid future problems

Sebenzana APP's experienced teams are skilled at determining the root cause of failure of components and identifying why a plant may not be performing according to expectations. In addition, our skilled consultants are able to rapidly assess and identify problem areas and help eliminate loss of production and avoid re-occurrence by recommending remedial actions.

## Onsite Support & Project Management

Have peace of mind

Sebenzana APP provides extensive professional support services to help monitor and manage your assets. Our Smart Asset Management Platform (SAMP) is specifically developed to support industry standard asset management best practices, encouraging preventative maintenance and eliminating the cumbersome task of manually managing your assets.

**Tensile Strength | Hardness Test | Bend Test | Load Test | Impact Test | Welding Test**



## Benefits of Working With Us

- Partner with the leading experts in the country
- Get the right advice and ROI for your equipment
- Avoid accidents, costly loss of production and event reoccurrences
- Reduce loss of equipment due to failure
- Focus on your core business while we take care of the rest
- Leverage artificial intelligence and machine learning models to yield value-adding insights

## Sectors

Bio-Technology & Pharmaceutical | Oil, Gas & Petrochemical | Power Generation  
Civil & Structural Engineering | Environmental Containment | Transport Road Tankers &  
Marine Vessels | Infrastructure Road & Rail | Manufacturing

*Sebenzana APP delivers performance improvements to your energy assets through tech-enabled services that leverage data and deep domain expertise – helping you lead the energy transition.*



ASSET  
PERFORMANCE  
PARTNERS

## **SEBENZANA | MATLAB SERVICES**

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