



Ontploffingvoorkomingstechnologie
Explosion Prevention Technologies

MTEEx Laboratories

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Company Profile:

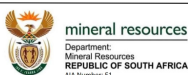
We are an independent, SANAS and ILAC Accredited ISO 17025 test laboratory as well as a Department of Labour (DOL) Approved Inspection Authority (A.I.A) and Department of Mineral Resources (DMR) Accredited Test Laboratory. MTEEx Laboratories specialises in SANS 10108 and its series of Explosion Prevention Standards.

We are accredited to do test work and have combined decades of experience at our Test Laboratory; therefore, we have the knowledge to assist with all aspects of testing and certification.

At present our services include:

Testing and certification:

- ✓ Testing and Certification of Explosion Protected Equipment including:
 - ⚠ General Requirements (IEC/SANS60079-0)
 - ⚠ Intrinsic Safe Devices (Ex i, IEC/SANS 60079-11)
 - ⚠ Flameproof Equipment (Ex d, IEC/SANS 60079-1)
 - ⚠ Encapsulation (Ex m, IEC/SANS 60079-18)
 - ⚠ Protection by Enclosure (Ex t, IEC/SANS 60079-31)
 - ⚠ Protection by Pressurized Enclosure (Ex p, IEC/SANS 60079-2)
 - ⚠ Protection by Type of Protection “n” (Ex n, IEC/SANS 60079-15)
 - ⚠ Certification of IS Loops (SANS 60079-25)
 - ⚠ Protection by Type of Protection “e” (IEC/SANS 60079-7)
 - ⚠ Import Certification (I.A. Certificates, ARP 0108)
 - ⚠ SANS 868 (Diesel Mining Machines)
 - ⚠ And more.
- ✓ Compression-ignition engine systems and machines powered by such engine systems, for use in mines and plants with explosive gas atmospheres or explosive dust atmospheres or both:
 - Part 1-1: Hazardous locations in underground mines- Basic explosion protected engines)
 - Part 1-2: Hazardous locations in underground mines- Explosion protected engine systems)
 - Part 1-3: Hazardous locations in underground mines- Machines



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T/A MTEEx Laboratories



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Page 1 of 2

Additional Testing

- ✓ Ingress Protection Testing (IP, IEC/SANS 60529)
- ✓ Batch Verification (SANS 96)
- ✓ Degrees of Protection provided by enclosures for electrical equipment against external mechanical impacts (IK Code) (IEC/SANS 62262)

- ✓ Fire Hazard Testing (Glowing/Hot-wire based test methods – Glow-wire apparatus and common test procedure) (ISO 60695-2-10)
- ✓ Environment and corrosion tests for non-metallic materials.
- ✓ Anti-Static tests for non-metallic materials.

Consultation:

- ✓ Hazardous Area Classification including compiling of AC Drawings (SANS10108).
- ✓ Inspections of electrical equipment installed in Hazardous Locations.
- ✓ Help with selection of explosion protected equipment.

Training:

- ✓ We offer ECSA accredited (3 point CPD registered) Explosion Prevention Course for plant personnel consisting of a 3 day course including extensive practical. This will equip personnel to select and maintain the equipment correctly and, do the 2-yearly inspections.
- ✓ Training for manufacturer and repairers of explosion protected equipment.

Quality System Mark Scheme:

- ✓ We have an independent ISO 80079-34 verification scheme that allows manufacturers of explosion protected equipment to verify the quality of their product and to use our quality logo on their products.

**We operate throughout Africa and even further
(China, UK, Australia, Germany and New Zealand).**

Contact us now for more information:

INFO@MTEXLAB.CO.ZA

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AND



**WE LOOK FORWARD to VERIFY the QUALITY of YOUR PRODUCT with OUR
EXCELLENT SERVICE.**