

Boiler water treatment

Most boiler failures start in the feedwater. We treat the whole system — feedwater, internal chemistry and blowdown — and prove it on your plant with your own data.

Feedwater to condensate

Analysis and report every visit

60 days, side by side

Level 2 B-BBEE | 300+ sites served nationally | Treating industrial water since 1998



Innovative Water Solutions

01

ASSET RELIABILITY

What a Prosep boiler programme covers

A boiler forgives nothing. Scale on a heat-transfer surface costs fuel every hour the boiler fires. Carryover puts impure steam into your process. Oxygen pitting takes tubes out of service years before their design life.

Prosep treats boiler water as a system, not a drum of chemical — from packaged fire-tube boilers in the 1 to 25 ton-per-hour, 10 to 17 bar class through to larger industrial installations.

Scale

Scale on a heat-transfer surface costs fuel every hour the boiler fires.

Carryover

Carryover puts impure steam into your process.

Oxygen pitting

Dissolved oxygen takes tubes out of service years before their design life.

The programme, stage by stage

Stage	What it does
Feedwater engineering	Filtration, softening or RO matched to the boiler behind it — moving to RO permeate feed where the economics support it.
Internal chemistry	Oxygen scavengers against dissolved-oxygen corrosion, scale control that keeps hardness in suspension for blowdown, and steam/condensate treatment that protects the lines.
Blowdown control	Automatic blowdown that monitors boiler-water conductivity (TDS) and holds it at target, instead of manual blowdowns that oscillate between shifts.
Monitoring & reporting	Water analysis and waterside inspection to confirm the programme works, with a written service report after every visit.

1998

Treating industrial water since

300+

Sites served nationally

132 million

Litres treated daily

Level 2

B-BBEE contributor

02 BOILER WATER TREATMENT Equipment and proof

Equipment supplied

- Filters for suspended solids and sediment
- Water softeners to remove calcium and magnesium hardness
- Proportional chemical dosing — no slug dosing, less chemical handling
- Automatic conductivity-controlled blowdown systems

Prove it, then commit

- Moving from softened water to RO feed? We run a 60-day side-by-side trial
- 30 days on soft water, 30 days on RO
- Water, energy, chemical cost and production recorded
- A total-cost comparison signed off by your team



Standards we work to

Boiler programmes are designed against the requirements that matter to a South African steam plant — the OHS Act and its pressure-equipment requirements, and your DWS discharge obligations on blowdown.

NEXT STEP

Book a site assessment

We survey your systems, sample your water and map the risks to uptime, yield and compliance — then state exactly what we would do, and prove it with your own plant's data.

- 01 We assess the site and take the analyses
- 02 You get an engineered programme, costed before you commit
- 03 We implement, monitor and report against the targets

Have this ready and the first visit goes further

- Boiler type, pressure and steaming rate
- Feedwater source and current pre-treatment
- Recent feedwater and boiler-water analyses
- Blowdown practice: manual or automatic
- Condensate return percentage
- Current chemicals and monthly usage

Talk to us

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Visit

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