

Industrial Boiler Water Tests



Optimise treatments and monitor
critical control parameters.
Water Testing Made Easy.

Kittiwake
Measuring, Monitoring & Managing



ECON Boiler Water Test Equipment

Measuring and monitoring treatment levels in boilers and associated conditioning plant and feeds, is essential to maintain output efficiency and longevity of plant. The ECON range of test equipment enables personnel to ensure treatments such as corrosion and scale inhibitors are correctly dosed.

The ECON range of test kits contain all equipment and test reagents for every day boiler water testing. Use them to optimise treatments and monitor critical control parameters. Fast and accurate testing ensures optimum output and efficiency.



pH Testing

Boiler systems pH levels are generally high (over pH 10) and are easily checked using pH test strips or meters. See the Kittiwake Test Meters and ECON Test Kits datasheets for full details.

Code	Product	Range	Tests per pack
BI-K21307	pH Test strips	pH 0 -14	100
BI-K21309	pH Test Strips	pH 7 -14	100
FG-K27377-KW	ECON 7011 Pocket pH Meter	-2 - 16 pH	1 Unit

Conductivity/TDS/°C Testing

Conductivity or Total Dissolved Solids (TDS) measurement of boiler water systems should be an essential part of everyday analysis that provides information on concentration factor and dissolved boiler solids. Excess solids can lead to boiler water carry over and system contamination. The Kittiwake Conductivity and TDS meter range is extensive and caters for all accuracy requirements and budgetary constraints. See the Kittiwake Test Meters datasheet for full details.

Code	Product	Range
FG-K27378-KW	ECON 7021 Pocket Cond/TDS/ °C/Salinity Meter	EC 0-19.99 mS, TDS 0-9.99 ppt, °C 0-90, Salt 0-9.99 ppt



Dissolved Oxygen Testing

Feedwater conditioning on medium and high pressure boilers is essential to remove corrosive oxygen. Our accurate dissolved oxygen test kits provide a quick and simple means of measuring the concentration (to ppb levels) of boiler feedwater, to establish the effectiveness of conditioning plant.

Code	Product	Range	Tests per pack
FG-K21154-KW	Dissolved Oxygen Test Kit	0-40 ppb	30
FG-K21156-KW	Dissolved Oxygen Test Kit	0-100 ppb	30

Test Kits for Boiler Water

Standard Test Kits

Two standard test kits for the analysis of boiler water treatments and water quality. Boiler Water No. 2 Test Kit is ideal for daily checks on critical inhibitor levels. Boiler Water No. 3 Test Kit gives a more complete analysis, ideal for service engineers.

BOILER WATER NO. 3 TEST KIT



Comparator Test Kits

A range of individual ECON Comparator Test Kits are available for measuring key boiler water inhibitors such as phosphate and DEHA.



Drop Test Kits

ECON Drop Test Kits for Hardness, Sulphite and Tannin are ideal for routine measurement of boiler corrosion inhibitors and softened water quality.

Ordering Information

FG-K25081-KW: ECON Boiler Water No. 2 Test Kit

Medium black plastic case containing:

- 1 x P + OH Alkalinity Test
- 1 x Chloride Test
- 1 x Sulphite/Tannin Test
- 1 x Waterproof Instructions

Additional space for 2 x ECON Test Meters and 1 x pH Test Strips

FG-K25082-KW: ECON Boiler Water No. 3 Test Kit

Aluminium case containing:

- 1 x P + OH Alkalinity Test
- 1 x Chloride Test
- 1 x Hardness LR Test
- 1 x Phosphate (with filtration) Test
- 1 x pH Papers
- 1 x Sulphite/Tannin Test
- 1 x TDS Tester (10+ pocket TDS meter)
- 1 x Waterproof Instructions

Additional space for 1 x ECON Test Meter, 5 x 65ml Reagents, plus 5 x 30 ml Reagents

FG-K28211-KW: DEHA Comparator Test Kit (0-500 ppm)

Small black plastic case containing:

- 1 x Comparator
- 1 x Comparator Disk for DEHA 0-500 ppm
- 2 x Comparator Cells
- 1 x Reagent Set
- 1 x Waterproof Instructions

FG-K28214-KW: Iron LR Comparator Test Kit (0-3.0 ppm)

Small black plastic case containing:

- 1 x Comparator
- 1 x Comparator Disk for Iron LR 0-3.0 ppm
- 2 x Comparator Cells
- 1 x Reagent Set
- 1 x Waterproof Instructions

FG-K28225-KW: Phosphate HR Comparator Test Kit (10-100 ppm)

Small black plastic case containing:

- 1 x Comparator
- 1 x Comparator Disk for Phosphate HR (10-100 ppm)
- 2 x Comparator Cells
- 1 x Reagent Set
- 1 x Waterproof Instructions

FG-K28703-KW: Hardness LR Drop Test Kit (1-60 ppm)

Small black plastic case containing:

- 1 x Reagent Set
- 1 x Titration Jar
- 1 x Syringe
- 1 x Waterproof Instructions

FG-K28700-KW: Sulphite Drop Test Kit (20-150 ppm)

Small black plastic case containing:

- 1 x Reagent Set
- 1 x Titration Jar
- 1 x Syringe
- 1 x Waterproof Instructions

FG-K28701-KW: Tannin Drop Test Kit (20-300 ppm)

Small black plastic case containing:

- 1 x Reagent Set
- 1 x Titration Jar
- 1 x Syringe
- 1 x Waterproof Instructions

Bespoke Test Kits

Test Kit Upgrades

The Boiler Water No. 2 and No. 3 Test Kits also have space for additional ECON Test Meters and test reagents. Choose from the product table on the following page to upgrade your test kits with our range of drop tests or pocket test meters.

Test Kit Cases

If the standard test kits do not meet your exact requirements, choose one of the case options below along with appropriate tests from the product table, to create your own bespoke kit. Robust cases are available in different sizes and configurations that accommodate a number of smaller tests and equipment. Cases are constructed of either rugged aluminium or hard wearing ABS plastic, with pre-cut foam inserts to hold all items securely in place.

ECON CASE B



Case Options

FG-K28234-KW: ECON B Test Kit Case

Medium black plastic case containing:

- 1 x ECON Comparator
- 2 x Path Length Adapters
- 2 x Comparator Cells
- 1 x Crushing Rod
- 1 x Waterproof Instructions
- Holds 4 x 30 ml and 5 x 65 ml reagent bottles (or 10 pots), plus 2 pots and up to 3 disks and 1 ECON test meter.

FG-K28235-KW: ECON C Test Kit Case

Medium black plastic case containing:

- 1 x 20ml Syringe
- 1 x 2ml Syringe
- 1 x Stirring Rod
- 2 x Sample Containers
- 1 x Waterproof Instructions
- Holds 6 x 65 ml (or 12 pots) and 4 x 30ml reagent bottles, plus 2 pots and 1 x ECON Test Meter.

ECON CASE D



FG-K28236-KW: ECON D Test Kit Case

Large aluminium case containing:

- 1 x ECON Comparator
- 2 x path length adapters
- 2 x comparator cells
- 1 x crushing rod
- 1 x 20ml Syringe
- 1 x Titration Jar
- 1 x instruction booklet
- Holds 27 x 65 ml reagent bottles, 5 pots and 5 x 30ml reagent bottles, plus 2 x ECON Test Meters.

Product Table

Code	Product	Range	Tests per pack	Number of Reagents
AS-K22294-KW	Alkalinity P HR drop test	200-2400 ppm CaCO ₃	120	2 x 65 ml
AS-K22304-KW	Alkalinity P + OH HR drop	200-2400 ppm CaCO ₃	120	3 x 65 ml
AS-K22298-KW	Alkalinity P, M, OH HR drop	200-2400 ppm CaCO ₃	120	4 x 65 ml
AS-K28035-KW	Chloride Reagent Pack	0-20 ppm Cl ⁻	120	2 x 65 ml
+ AS-K29035	Chloride Comparator Disk & Instructions			
AS-K22312-KW	Chloride HR drop test	200-12,000 ppm Cl ⁻	120	2 x 65 ml
AS-K28065-KW	Copper Reagent Pack	0-5.0 ppm Cu	100	1 (sachets)
+ AS-K29065	Copper Comparator Disk & Instructions			
AS-K28071-KW	DEHA Reagent Pack	0-400 ppb DEHA	130	2 x 65 ml
+ AS-K29071	DEHA Comparator Disk & Instructions			
AS-K22328-KW	Hardness (Total) LR drop test	5-60ppm CaCO ₃	120	3 x 65 ml
AS-K22333-KW	Hardness (Total) Yes/No	8-20ppm CaCO ₃	50	1 x pot
AS-K28077-KW	Hydrazine Reagent Pack	0-0.5 ppm N ₂ H ₄	130	2 x 65 ml
+ AS-K29077	Hydrazine Comparator Disk & Instructions			
AS-K28089-KW	Iron LR Reagent Pack	0-3.0 ppm Fe	100	1 (sachets)
+ AS-K29089	Iron LR Comparator Disk & Instructions			
AS-K28155-KW	Phosphate HR Reagent Pack	10-100 ppm PO ₄	40	3 x 65 ml
+ AS-K29155	Phosphate HR Comparator Disk & Instructions			1 (sachets)
AS-K28167-KW	Silica HR Reagent Pack	0-40 ppm SiO ₂	100	3 (sachets)
+ AS-K29167	Silica HR Comparator Disk & Instructions			
AS-K22356-KW	Sulphite drop test	25-150ppm Na ₂ SO ₃	120	1 x 65 ml, 1 x Pot
AS-K22358-KW	Tannin drop test	50-300ppm Tannin	120	1 x 65 ml, 1 x Pot

- Large range of test equipment available - tailor your tests to your own configuration.
- Simple, quick and accurate use - test results fast.
- High quality equipment and reagents - manufactured under ISO 9001: 2000 quality guidelines.
- Multiple kits can be combined in a robust plastic case, making portable, on-site testing even more convenient.
- Instruction sheets printed on waterproof paper, to withstand spills or splashes.



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