

Boiler Feedwater

You can choose the kit that best fits your application among any of the following 4 combinations for testing of water in boilers. All the tests are performed by a titration method, with the exception of the pH test which is obtained with HANNA instruments' pH electronic tester, pHep®, which guarantees more accuracy and longer life than traditional litmus paper.

Every kit is equipped with all the necessary reagents and apparatus to perform over 100 tests (50 for iron and phosphate), and the reagents can be purchased individually when they run out (please refer to section V for a list of spare reagents).

Every kit is supplied with a hard carrying case for easy transportation, and the tests are easy to perform with step-by-step instruction manuals.

- **HI 3816:** kit for alkalinity, chloride and hardness
- **HI 3827:** kit for alkalinity, chloride, hardness, pH, phosphate and sulfite
- **HI 3828:** kit for alkalinity, chloride, hardness, iron and pH
- **HI 3837:** kit for pH, phosphate and sulfite



HI 3816, HI 3827, HI 3828, HI 3837 - Boiler Test Kits

Parameter	Method	Range*	Smallest Increment	Chemical Method	Number of Tests
Alkalinity (as CaCO ₃)	Titration	0-100 mg/L 0-300 mg/L	1 mg/L 3 mg/L	Phenolphthalein/ Bromphenol blue	approx. 110
Chloride (as Cl ⁻)	Titration	0-100 mg/L 0-1000 mg/L	1 mg/L 10 mg/L	Mercuric Nitrate	approx. 110
Hardness (as CaCO ₃)	Titration	0.0-30.0 mg/L 0-300 mg/L	0.3 mg/L 3 mg/L	EDTA	approx. 100
Iron	Colorimetric	0-5 mg/L	1 mg/L	Phenanthroline	100
Phosphate (as PO ₄ ³⁻)	Colorimetric	0-5 mg/L	1 mg/L	Ascorbic acid	100
pH	Electronic pH tester	0.0-14.0 pH	0.1 pH	—	life of the meter
Sulfite (as Na ₂ SO ₃)	Titration	0.0-20.0 mg/L 0-200 mg/L	0.2 mg/L 2 mg/L	Iodometric	approx. 110

Other Information

Dimensions HI 3816 and HI 3837: 370 x 270 x 80 mm; HI 3827 and HI 3828: 440 x 330 x 100 mm

Weight HI 3816: 1.2 kg; HI 3827: 2.2 kg; HI 3828: 2 kg; HI 3837: 1.5 kg

* 1 mg/L = 1 ppm

For spare reagents, see section V. For accessories, see section U.