

Hardness Reagent

TH

Suitable for

PACON 5000
PACON 4800
PACON 4600
PACON 4500 (Discontinued)



Alkalinity Reagent

TC

Suitable for

PACON 5000
PACON 4800
PACON 4600
PACON 4500 (Discontinued)



● The PACON 5000/4800/4600 analyser must use the matching reagents produced by JENSPRIMA to measure different hardness/alkalinity ranges by selecting different types of reagents.

Hardness reagent types and measuring ranges

Order No.	Model	°dH	°f	ppm CaCO ₃	mmol/L
50-5000-01	TH5000	0.012-0.12	0.021-0.214	0.21-2.14	0.002-0.021
50-5001-01	TH5001	0.03-0.3	0.053-0.534	0.53-5.34	0.005-0.053
50-5003-01	TH5003	0.09-0.9	0.160-1.602	1.60-16.0	0.016-0.160
50-5010-01	TH5010	0.3-3.0	0.534-5.340	5.34-53.4	0.053-0.534
50-5030-01	TH5030	0.9-9.0	1.602-16.02	16.0-160.2	0.160-1.602
50-5050-01	TH5050	1.5-15	2.670-26.70	26.7-267.0	0.267-2.670
50-5100-01	TH5100	3.0-30	5.340-53.40	53.4-534.0	0.534-5.340

Alkalinity reagent types and measuring ranges

Order No.	Model	°dH	°f	ppm CaCO ₃	mmol/L
50-5510-01	TC5010	0.3-7.5	0.534-13.4	5.34-134	0.107-2.68
50-5515-01	TC5015	0.45-11.5	0.801-20.5	8.01-205	0.160-4.10
50-5520-01	TC5020	0.6-15	1.07-26.7	10.7-267	0.214-5.34
50-5530-01	TC5030	0.9-22.5	1.6-40.1	16.0-401	0.32-8.02
50-5550-01	TC5150	4.5-115	8.01-205.0	80.1-2050	1.6-41.0

Total hardness

Total hardness is the total amount of calcium and magnesium ions in water and the conversion units vary from country to country and are commonly used in mmol, ppm CaCO₃. Hard water is not a serious health hazard. However, high hardness water can cause serious problems in industrial environments where it is common to monitor water hardness to prevent costly failures of components such as cooling towers, boilers and other equipment that contain or process water.

Warning

Wear protective gloves/protective clothing/face protection.
FIN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

How to check the expiry date

The label on the reagent bottle: Expires: 11/2026 indicates that the bottle is valid until November 2026.

Total alkalinity

Total alkalinity is the total amount of substances in water that can neutralise strong acids. Alkaline compounds in water (such as hydroxides and carbonates) remove H⁺ ions from the water, which reduces the acidity of the water and results in a higher pH. Total alkalinity is measured by measuring the level of acid required to bring the pH of a particular sample to 4.2. At this level, all alkaline compounds are completely used up. Measuring alkalinity is essential to determine the ability of acidity and corrosive influences produced in water and is commonly used in boiler water quality monitoring.

Technical parameters

Products:	Hardness Reagent, Alkalinity Reagent
Capacity:	500ml/bottle
Expiry date of reagent:	2 years from the factory
Number of measurements:	ca. 5000~10000 analysis
storage:	storage in darkness (<25°C)