

total hardness test kit

For 50 mL samples:

Total Hardness (ppm CaCO₃) =

Number of Tablets x 40 - 20

For 100 mL samples:

Total Hardness (ppm CaCO₃) =

Number of Tablets x 20 - 10

Number of tablets	50ml sample	100ml sample
1	20 ppm	10 ppm
2	60 ppm	30 ppm
3	100 ppm	50 ppm
4	140 ppm	70 ppm
5	180 ppm	90 ppm
6	220 ppm	110 ppm
7	260 ppm	130 ppm
8	300 ppm	150 ppm
9	340 ppm	170 ppm
10	380 ppm	190 ppm

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This Test Kit is specifically designed for assessing the Total Hardness (as CaCO₃) in water.

The test range is 0 - 500 ppm CaCO₃. Total Hardness in water is caused by divalent cations. Utilizing a tablet count approach. Calcium and Magnesium ions are usually the only ones in significant concentrations and contribute to the formation of limescale. This measure indicates the level of Total hardness present within the collected water sample.



For safety information, please visit www.watercare.co.uk.

KEEP OUT OF REACH OF CHILDREN

NOT SUITABLE FOR USE BY ANYONE UNDER 18 YEARS OF AGE

Kit Contents:

Calibrated sample bottle (125 mL)

Total Hardness tablets (80 count in foil)

Usage Instructions:

The testing ranges:

20–500 ppm CaCO₃ = 50 mL sample and

10–250 ppm CaCO₃ = 100 mL sample.

Select the appropriate sample volume (50 mL or 100 mL) according to the testing range you're aiming for. First, rinse the bottle with the water sample, then fill it to the designated volume mark.

Add one Total Hardness tablet to the sample bottle, seal it with the stopper, and shake until the tablet is fully dissolved. Continue to add tablets one at a time until the colour of the solution changes from **VIOLET to BLUE**.

Count the number of tablets required to achieve this colour change. Use the formula below to calculate the Total Hardness (ppm CaCO₃) alternatively, use the chart provided.

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