Magnesium Profi Test	Magnesium '	Table
The magnesium test can be used for testing:	Reading in ml's	Magnesium concentration
Marine water only.	(Step 6)	in ppm
Calcium and strontium will not interfere when	0.00	1500
their total concentration is between 300 and	0.02	1470
500 ppm. This is mostly the case.	0.04	1440
boo ppini Tino io moonly the case.	0.06	1410
WARNING	0.08	1380
Keep out of reach of children. Not for consumption.	0.10	1350
receptor of reaction commercial froctor consumption.	0.12	1320
INSTRUCTIONS	0.14	1290
IMPORTANT: This is a new version and reagents	0.16	1260
from previous versions in which 3 ml sample had to	0.18	1230
be used can no longer be used with this new	0.20	1200
version!	0.22	1170
version.	0.24	1140
1] Add with the 2 ml syringe 2 ml of water to the test	0.26	1110
vial.	0.28	1080
viai.	0.30	1050
2] Add 6 drops of Mg-1 and swirl gently for 30 seconds.	0.32	1020
2] Add o drops of Aig-1 and swift gently for 50 seconds.	0.34	990
3] Add one spoon of Mg-2 powder (spoon inside) to the	0.36	960
test vial and swirl for 10 seconds.	0.38	930
test viai and swift for 10 seconds.	0.40	900
4] Place the plastic tip firmly on the 1 ml syringe and	0.42	870
	0.44	840
draw into this Mg-3 reagent until the lower end of the	0.46	810
black syringe part is at the 1.00 ml mark. Ensure that	0.48	780
during this that the plastic tip is submersed in the Mg-3	0.50	750
reagent to avoid that air bubbles are withdrawn instead	0.52	720
of liquid.	0.54	690
An air layer between the liquid and the piston is normal.	0.56	660
This is air which was present between the end of the tip	0.58	630
and the piston, this will not influence the result.	0.60	600
5] Start adding the Mg-3 reagent with the 1 ml syringe	0.62	570
	0.64	540
to the test vial until the color changes to gray or blue	0.66	510
(whichever color is observed first).	0.68	480
Do this drop wise and swirl after each drop for a second	0.70	450
or two.	0.72	420
61 Hold the arrings with the tip facing unward and read	0.74	390
6] Hold the syringe with the tip facing upward and read	0.76	360
the position of the upper end of the black syringe part.	0.78	330
Each division corresponds to 0.01 ml.	0.80	300
The magnesium concentration can be obtained from	0.82	270
the table or by use of the following equation:	0.84	240
nnm $Ma = (1 \text{ roading stan 6}) \times 1500$	0.86	210
ppm $Mg = (1 - reading step 6) \times 1500$	0.88	180
Natural con water has a magnesium consentration of	0.90	150
Natural sea water has a magnesium concentration of	0.92	120
approx. 1300 - 1500 ppm. The concentration varies	0.94	90
with salinity.	0.96	60

Too low magnesium concentration makes maintaining correct calcium and alkalinity concentration difficult. Magnesium concentration can be increased with Salifert's magnesium.

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0.98

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