TECNICHAL MANUAL

“REMINERALIZING PRODUCTS”

REMINERALIZATION PRODUCTS

INTRODUCTION

With the reverse osmosis process, we obtain a water with a very low salt content. For this reason, it is not possible to use it simply for drinking or for food purposes, but it is important to reintroduce some essential components for the body in a balanced way. These elements are mainly Sodium, Calcium, Chlorides and Carbonates, which represent the elements that you find naturally in water and which make the latter pleasant and chemically complete for drinking.

For this purpose, the range of EVERBLUE products includes mineralizers:

- EB MINERAL 1
- EB MINERAL 2
- EB MINERAL 3
- EB MINERAL 10
- EB MINERAL 23

EB-Mineral 1, EB-Mineral 2 and EB-Mineral 3 are powdered products.
EB-Mineral 10 and EB-Mineral 23 are solutions.

Their balanced use introduces in a simple and effective way the salts necessary to obtain drinking water with optimal characteristics.

HOW TO USE THE REMINERALIZING PRODUCTS

EB-MINERAL 1, EB-MINERAL 2, EB-MINERAL 3

EB MINERAL 1

This compound introduces Cl- chloride ions and Calcium Ca 2+ ions into the water, it is a highly soluble powder in water, which makes it possible to prepare solutions with different concentrations, depending on the conditions of use. The recommended dosage is 130 ppm (mg / l) of powder and this provides a calcium intake of 7 ° f. The table shows some examples of dosage of the EB MINERAL 1 solution at various concentrations.

EB MINERAL 1 solution at 20% by weight

Dose in ppm of solution at 20%	ppm of Ca^{2+}	ppm of Cl^-	Hardness in °f
650	35,44	62,7	7
1000	54,5	96,4	10,7
1400	76,33	135	15

EB MINERAL solution 1 at 30% by weight

Dose in ppm of solution at 30%	ppm of Ca^{2+}	ppm of Cl^-	Hardness in °f
435	35,44	62,7	7
745	60,75	107,5	12
1245	101,25	179	20

EB MINERAL 2

This product provides both Hydrogen Carbonate (bicarbonate) HCO3- and Sodium Na + ions. Its solubility is limited compared to EB MINERAL 1, so for the preparation of the solution it is advisable not to exceed the concentration of 9% by weight. The optimal recommended dosage is 80 ppm to have a contribution equal to 4.8 ° f of alkalinity.

EB MINERAL 2 solution at 5% by weight

Dose in ppm of solution at 5%	ppm of HCO_3^-	ppm of Na^+	Alkalinity in °f
1000	18,3	6,9	3
1600	29,28	11,03	4,8
2500	45,75	27,57	7,5

EB MINERAL 3

Provides alkalinity in the form of Carbonate CO32- ions together with the supply of sodium Na + ions. The recommended dosage is equal to 15 ppm of solid, so if you prepare a 10% solution you must dose 150 ppm to have an alkalinity equal to 1.4 ° f.

EB MINERAL 3 solution at 10% by weight

Dose in ppm of solution at 10%	ppm of CO_3^{2-}	ppm of Na^+	Alkalinity in °f
150	8,4	6,4	1,4
535	30	22,8	5
1070	60	45,6	10

It is important that the solutions of the products EB MINERAL 1, 2 and 3 are absolutely prepared individually using osmotic water, because the mixing in the same solution of the product EB MINERAL 1 with MINERAL 2 or 3 causes the precipitation of calcium carbonate.

The dosages of the individual solutions in osmotic water can vary depending on the concentration of the solutions themselves and above all on the request for mineralization of the water depending on its use. For more detailed information, doubts or advice on use, consult our website www.everblue.it or contact our technical department

EB MINERAL 10 e EB MINERAL 23

These are ready-to-use aqueous solutions that contain, in the case of **EB MINERAL 10**, chloride ions Cl- and Calcium Ca 2+ ions, while for **EB MINERAL 23** there is a contribution of Hydrogen carbonate ions (bicarbonate) HCO3-, Carbonate ions CO32- together with the supply of sodium ions Na +.

Since they are immediately available in liquid form, and their formulation is calibrated, to obtain the desired dosage, we use a simple software where we only need to set the final hardness value desired to obtain the dosage in ppm of EB MINERAL 10 and EB MINERAL 23:

Hardness value °f	ppm di EB MINERAL 10 e EB MINERAL 23	ppm di Ca^{2+}
5	667	20
15	2000	60
20	2667	80

For any clarification on the use of EB MINERAL 10 and EB MINERAL 23 products, consult our website www.everblue.it or contact our technical department.

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