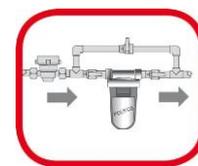


# POLIFOS Crystals



## Conditioning for domestic water circuits Antiscaling and anticorrosive action

### DESCRIPTION:

Crystal product with an antiscaling and anticorrosive function to be dosed with boiler water, in water systems, in mold cooling systems, in evaporative towers, in closed systems with automatic replenishment. It protects the boilers and the various components preventing the formation of limestone deposits and consequent corrosive effects due to the formation of carbon dioxide.

These salts consist of the combination of numerous high polymerization alkaline metaphosphates, in the transparent glassy state, of white and light green color; bright in airtight containers are kept indefinitely, while in the open air they are covered with a white pat of orthophosphate, slowly absorbing moisture; in aqueous solution, however, they degenerate to orthophosphate much more slowly.

### INSTRUCTIONS FOR USE:

Upstream of the hot water system, boiler or heat exchanger, with the aid of a system proportional to the water flow rate, is introduced. The correct concentration depends on the hardness and the water heating temperature. Correct dosages can be made with proportional proportioners for crystals (WL-DOSP HA) in the ratio of 2 - 4 ppm (mg/l) of water circulating in the system.

### TECHNICAL DATA:

Appearance	glassy, colorless
Smell	without smell
pH as it is	5,05 ± 0,5
Apparent density	1,2 g/cm <sup>3</sup>
Solubility in water	complete
Fusion point	630 °C
Titolo come P <sub>2</sub> O <sub>5</sub>	69,2 %
Na <sub>2</sub> O	20 – 30 %
Pb	10 ppm
CN	5 ppm
Sb	3 ppm
Cr	10 ppm
As	3 ppm
Hg	1 ppm
Se	3 ppm
Ni	10 ppm
Cd	3 ppm
CaO	7 – 15 ppm
F	10 ppm
SO <sub>4</sub>	500 ppm

### PACKAGES:

Bottles 1 kg (pieces with 12 pieces). Buckets 25 kg.



## Frequency of controls checks according to UNI 8065:2019

- Parameters and withdrawal points for annual controls checks:

Type of installation / Analysis and controls	Summer and winter water conditioning	Solar thermal	Sanitary water production	Note
	Withdrawal point	Withdrawal point	Withdrawal point	
Appearance	C	C	A	
pH	C	C	A	
Total hardness	R - C	Not required	A	
Electric conductivity	R - C	Not required	A	
Chemical conditioning	C	C	A	In the case of solar thermal systems, the heat transfer fluid could perform both an anti-freeze and a chemical conditioning function.
Frost Protection	C	C	Not required	Check to be carried out only if frost protection is present.

- Parameters and pick-up points for checks in the event of specific problems (eg. Corrosion) or for further information:

Type of installation / Analysis and controls	Summer and winter water conditioning	Solar thermal	Sanitary water production	Note
	Withdrawal point	Withdrawal point	Withdrawal point	
Iron	C	C	A	Not necessary for installations where presence is excluded.
Copper	C	C	A	Not necessary for installations where presence is excluded.
Aluminum	C	C	A	Not necessary for installations where presence is excluded.
Chloride	R	Not required	A	The check should only be carried out if the chloride content is suspected to be incompatible with the characteristics of the plant components.
	C	Not required	Not required	System water control is required annually only if a water softener is installed in the reintegration circuit.



<b>Microbiological parameters</b>	Variable according to the system characteristics	Not required	Variable according to the system characteristics	In the case of sanitary water, the frequency and the points of withdrawal must be identified on the basis of a risk assessment carried out by qualified personnel following the indications of official documents (for example guidelines for the control and prevention of legionellosis) where relevant.
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**Withdrawal points:**

- A – Feed water upstream of any water treatment
- R – Filling and/or replenishment water upstream of any water treatment
- C – Circuit water

N.B. For all types of systems it is mandatory to create and keep updated a record sheet of the results of the checks carried out to be included in the plant book DPR 74/13.

**The DM 26 of 2015 – Decree minimum requirements**

**Processing obligations:**

Hearth power	Hardness below 15 °f	Hardness greater than 15 °f
≤ 100 kW	Filtration + Chemical conditioning	
> 100 kW	Filtration + Chemical conditioning	Filtration + Softening + Chemical conditioning

Last update: 18.04.2023

