

## **LUZAR 7-SR**

### **Anticorrosión - descaling anti-algae inhibitor** **For underfloor heating and low temperature heating systems**

#### **DESCRIPTION AND APPLICATIONS**

The innovative formulation incorporated in Luzar 7-SR is efficiently protecting all metals in the circuit for long periods without maintenance or systematic checks of the additive concentration for correcting the dosing rate.

It incorporates biocides of high efficiency and duration for avoiding the proliferation of microorganisms that could cause sludge in the system.

The formulation includes a dispersant to avoid the formation of lime scaling, and simultaneously it cleans slowly those already present in the system.

Circuits with suspended solids are incompatible with the majority of anticorrosion products, as they are hindering the action of the inhibitors. This problem does not affect the efficiency of Luzar 7-SR, since the additives are 100% active even with the presence of solids.

The long time stops are not longer a problem. Once the product is in contact with all the circuit, it keeps protecting it, even without water circulation.

Some of the advantages compared with other standard products:

- ✓ It incorporates a biocide to avoid sludge of biological origin
- ✓ It incorporates dispersant to avoid the formation of lime scaling, and simultaneously it cleans those already existing.
- ✓ Minimum activity of 2 years in closed loops.
- ✓ 100% active with the presence of solids in the circuit
- ✓ 100% active with the stopped circuit
- ✓ Formulated without heavy metals, amines, phosphates, borates, nitrites or nitrates.
- ✓ Classified as non toxic according to current laws
- ✓ Biodegradable.

## PROPERTIES

### Technical Data:

Physical status - appearance	Blue liquid
Odour	characteristic
Density (20°C)	1.04 – 1.06 kg/l
pH (1% V/V Agua) 25°C	7,0 - 8,0
Solubility in water	Totally miscible

### User's Instructions:

- 1) Circulate the existing fluid in the installation at least for one hour in order to assure that the existing deposits get into suspension.
- 2) Drain completely the previous fluid (pay attention on siphons and zones of flux retention)
- 3) Check the heating elements and expansion vessels. Clean them if solids are found.
- 4) Rinse with water at least twice. Empty the circuit and check that there are no rests blocking the filters.
- 5) Empty the circuit completely
- 6) Fill with Luzar 7-SR and water according to the water quality as indicated below in these instructions. It is recommended to premix the product with water before filling it to the circuit.
- 7) Once the dosing is adjusted, let the pumps running for at least 3,5 laps the total volume of the installation, in order to assure a good homogenization.

### Dosing rate

The recommended dosing rate for new installations is between 1% and 1,5% of the circuit volume. For old installations or those with corrosion, gas generation, etc., it is recommended to increase up to 2,5-3,5%, according to the installation's condition. The recommended maximum dosing rate is 7% for a liquid with a long term stop or the circuit has shown a strong corrosion previously.

## **Water quality**

The water for the dilution of the product should be of potable quality or demineralized water so that the following parameters are met:

- The salinity of the diluting water must not be superior than 500 mg/l of total soluble salts. In case such data is not available, the electrical conductivity shall be considered as limiting parameter, with a maximum limit of 650  $\mu\text{S}/\text{cm}$ .
- The contents of calcium salts in the circuit must not exceed 200 mg/l, expressed as calcium carbonate.
- The limit of free  $\text{CO}_2$  contained in the water must not be greater than 50 mg/l.
- pH at 20°C: 7,0 - 9,0
- Chlorides <100 ppm
- Sulfates < 50 ppm

Beyond such limits, it is recommended to use treated water and to consult our technical department.

Such indications don't exempt from the fulfillment of the legislation in force in the place where the product is used.

## **STORAGE**

Store in the original canisters, tightly closed and without deterioration. Store in a dry and fresh place under protection from direct sun beams and from freezing in a temperature range of +5°C to +30°C.

The product is stable at such storing conditions for at least 18 month from the moment of production.

## **DELIVERY FORMS**

The product is presented in canisters of 2 and 20 kg. For other delivery forms please consult the availability.

## **PRECAUTIONS**

The product is not classified as harmful or irritant, in agreement with current legislation. Therefore, no special precautions are required when handling the product.

In agreement with the good industrial practice, it is recommended:

- To avoid the eye and skin contact
- To not smoke while handling the product
- Wash the hands and arms before eating or drinking and after handling the product.