

CS Descal

Descaling product for circuits of warm water

DESCRIPTION Y APPLICATIONS

CS Descal (CSD) is a descaling cleaning product for warm drinking and heating water circuits. It is composed of products that are classified as food additives.

Both the product and its dilutions with water are classified as non-toxic and not dangerous for the environment. The product is totally biodegradable.

CSD eliminates efficiently and in a short period of time the lime deposit scaling and oxides of iron present in the circuit. It is compatible with stainless steel, brass, and copper. For cleaning processes in contact with other metals, please contact the technical department.

ADVANTAGES

- Safer handling: does not emit corrosive smokes, does not produce burns in case of a short incidental contact with the skin.
- After the cleaning process it is only necessary to rinse (no other product is necessary to neutralise that would mean another cost and working hours).
- In case of inefficient rinsing and flushing, no corrosion problems are produced, in difference to other products based on hydrochloric acid, that leave much chlorine in the circuit).
- Both, the initial product as well as the final reaction products are biodegradable and don't have discharge restrictions.
- The product doesn't have transport restrictions (ADR), nor during the storage.
- Widely used in heating units with heat exchangers with stainless corrugated steel coils
- CSD is a highly concentrated liquid (1 litre of the product dissolves approximately 0,5 Kg. of scaling¹).

¹ Expressed as anhydrous calcium carbonate.

PROPERTIES

Technical Characteristics:

Physical status – appearance	Red liquid
Odour	Weak, characteristic
Density (20°C)	1,20-1,24 g/ml
pH (2%) in distilled Water.	1,0 – 2,0
Solubility in water	Totally miscible

Doses – User’s Instruction:

Isolate the elements to be cleaned from the rest of the circuit. With the help of a pump, let the product diluted with water (proportions indicated further below) circulate through the heat exchanger or coil that is to be descaled. It is recommended to incorporate a filter (100 microns or less) in the suction part of the pump in order to eliminate the solids generated in the circuit during the cleaning process.

Start with a ratio of 2% by weight (2 kg of the product every 100 litres of water) and let it work. As the active material is getting used by dissolving the lime deposit scaling and iron oxides, the product will turn orange and finally yellow when it is all used. The maximum recommended ratio is 10% for cleaning systems with much scaling deposits and oxides present.

Continuously adjust the ratio as the active matter is getting used, until the colour stays red or reddish orange. This happens when there is active material but no more lime or irons to clean, for which the cleaning process has ended.

Once the cleaning process is over, flush generously with water until it runs out without turbidity and colourless.

The velocity of dissolution of the lime scaling increases with the temperature, hence clean with temperatures at 60°C whenever it may be possible in order to accelerate the process.

The basis of the product is a no oxidising acid. In realised tests with pumps with impellers and bodies made of iron, bronze, technical plastics (POM), no deterioration of them was detected after flushing the pumps with drinking water after the cleaning. In the same way, no incompatibilities with the habitual seals were detected. In case of doubt it is recommended to contact our technical department or to perform compatibility tests on site.

Storage:

The product is stable in the normal storing conditions for 12 months. It is considered neither toxic nor inflammable.

Protect from frost.

PRESENTATIONS

The product is presented in canisters of 2 and 10 litres. For other presentations consult availability.

PRECAUTIONS

The product has an acid pH, for which skin and eye contact have to be avoided. In case of contact with the skin, wash the affected area with abundant water, and in case of persistent irritation, please consult a doctor.

Both the product and its dilutions with water don't produce acid or irritating gases, permitting a safer working atmosphere.

LABELLING ACCORDING TO Regulation (CE) N° 1907/2006 (REACH)



WARNING

Risk and safety statements:

H319: Causes serious eye irritation.

P102: Keep out of reach of children.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Carpemar