



## Alfa P-Scale

### Cleaning agent for heat exchangers



A problem frequently encountered in almost all applications is the build-up of deposits on heat transfer surfaces. Alfa Laval supplies a wide range of cleaning agents suitable for removing most of these troublesome deposits. These cleaning agents have been specifically developed for use in heat exchangers. The time-consuming work of opening plate heat exchangers can thus often be avoided by using an Alfa Laval Cleaning in Place (CIP) unit.

All Alfa Laval cleaning agents have been developed and tested in Alfa Laval's own laboratories. Provided the recommended instructions are adhered to, Alfa Laval guarantees that these cleaning agents do not damage plates, gaskets or glue.

#### Concept

An Alfa Laval CIP unit is connected to the heat exchanger, and Alfa P-Scale is mixed with water in the CIP unit. This mixture is then heated, and circulated through the heat exchanger, which is cleaned within a couple of hours.

Alfa P-Scale is an acidic cleaning powder with a sulphamic acid base and a corrosion inhibitor. It is particularly effective for removing calcium carbonate and other inorganic scale.

#### Features and benefits

- Alfa P-Scale is a powder, which makes it easy to transport
- Tested in Alfa Laval's own laboratories, which means that Alfa Laval guarantees that plates, gaskets or glue are not damaged
- Can be used in combination with AlfaAdd, which provides even better cleaning results on oily and fatty surfaces and where biological growth occurs. AlfaAdd also reduces any foaming.

### Instructions for use

The normal mixing ratio for calcium carbonate and other inorganic scale is 1 kg powder to 20L of water.\*

The recommended cleaning temperature is 40–60°C (104–140°F).

The recommended cleaning time is 2–6 hours.\*\*

Alfa P-Scale can be mixed with AlfaAdd (0.5–1 vol% to total diluted solution) to provide better cleaning results on oily and fatty surfaces and where biological growth occurs. AlfaAdd also reduces any foaming.

Alfa P-Neutra is used after cleaning is completed in order to neutralize the solution to be disposed of. Alfa P-Neutra is added until the pH level of the disposal solution reaches 6–8.\*\*\*

\* The pH level must never exceed 2.5 during the cleaning process. To lower the pH level, more Alfa P-Scale must be added to the solution.

\*\* Depends on the amount of fouling present in the heat exchanger, the size of the heat exchanger, the cleaning temperature and the concentration of the cleaning liquid.

\*\*\* There is a risk of chemical precipitation in the tank if neutralization is carried out too rapidly, or if too much Alfa P-Neutra is used.

### Ordering information

Supplied in 5 x 1 kg bags in cardboard box.

Art. no. 32840-0060-2 5 x 1 kg

(Minimum order quantity 16 boxes.)

### Technical specification (physical and chemical properties)

Physical state	Solid
Colour	White
Odour	Almost odourless
pH	1–1.5 at 5%
Density at 20°C (kg/m <sup>3</sup> )	650–750

### How to contact Alfa Laval

Contact details for all countries are continually updated on our website. Please visit [www.alfalaval.com](http://www.alfalaval.com) to access the information direct.