



# Product Specification Report

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**X-SCALE is a complete formulation to remove scale from hot water boilers, steam generators and heat exchangers**

## X-SCALE

Acid scale remover

### FEATURES:

<b>Removes scale</b>	Removes limestone and iron oxides, disintegrates algae and mud.
<b>With colour indicator</b>	Mixture of organic acids with a pH indicator to indicate effectiveness of the product.
<b>Delicate</b>	Unlike other descalers with a hydrochloric acid base, X-SCALE is safe on all metal surfaces and gaskets.
<b>Safe</b>	The acid solution can be left in the circuit for up to 24 hours.
<b>Effective</b>	Effective because 1 kg of product removes 1 kg of limestone, whereas most other hydrochloride based products are 3 times less effective.

### SPECIFICATIONS:

Form .....	Liquid
Colour .....	Red
Odour.....	Odourless
Density (20°C) .....	± 1,4 kg/l
Solubility in water .....	Soluble
pH (20 °C) .....	< 1

### ACTIVE INGREDIENTS:

- Inorganic acids
- Organic acids
- Corrosion inhibitors
- Cleaning aids

### COMPATIBILITY:

Materials not sensitive to contact with acid products.  
Compatible with galvanized surfaces.

### PRECAUTIONS FOR USE:

For more information, consult the MSDS.

### INSTRUCTIONS FOR USE:

- Drain the system and rinse thoroughly trying to remove the sludge deposited on the bottom.
- Fill the system with a solution of X-SCALE:

<b>Hot water boilers</b>	<b>10 %</b>
<b>Cooling circuits of marine engines</b>	
<b>Refrigerator condensers</b>	<b>5-8%</b>
<b>Hot water producers</b>	
<b>Heat exchangers</b>	
<b>Cooling towers</b>	<b>2-3%</b>
<b>Heating circuits</b>	

- Let the solution circulate in the system for 1 - 3 hours. If there is less time available it is recommended to heat to water to 40-50°C.
- Follow the status by checking the colour of the solution. The initial colour is orange and when the product loses its effectiveness it turns blue. When the solution is blue, drain the liquid and add fresh X-SCALE solution. When the solution stays orange for 20-40 minutes, descaling is complete.
- After descaling, rinse the system with water until no residues are found. Now fill the system with water and add suitable water treatment products.

*All information in this document is based on our practical experience and/or laboratory tests. Due to the multiplicity of conditions for usage and variable human factors, we recommend that you always test our products for suitability prior to use. At any time, this version of the product specification report may have been revised based on legislation, availability of the individual ingredients or newly acquired information. The current approved version is available upon request.*



**Zep UK Ltd.**  
T • 0151 422 1000  
F • 0151 422 1011  
info@zep.co.uk  
www.zep.co.uk



**Zep Italia s.r.l.**  
T • 800 016 918  
Numero Verde Tecnico  
800-579185  
tecnico@zepeurope.com  
www.zep.it



**Zep Industries BV**  
T • 02 347 01 17  
F • 02 347 13 95  
sales@zep.be  
www.zepindustries.be



**Zep Industries BV**  
T • 0164 250100  
F • 0164 266710  
info@zepbenelux.com  
www.zepindustries.nl



**Zep Industries BV**  
T • 0521 174158  
F • 0521 5217114  
sales@zepbenelux.com  
www.zepindustries.de