

SAFE DESCALER POWDER

Powdered Acid Descaler

Technical Information

Physical Data

Appearance:	Pink powder
pH after 1 h solution in water:	1
Apparent specific gravity:	1.2
Solubility in water:	10% maximum

Description

This water-soluble acid powder compound contains descaling accelerators, corrosion inhibitors, and an indicator dye. It effectively dissolves water scale and rust scale and is suitable for use with most heating and cooling systems. Furthermore, it enhances heat transfer and is non-toxic and non-explosive.

Application

This versatile water-soluble acid powder compound is designed for various applications, making it a valuable solution for multiple needs. It excels in descaling diesel engine cooling water systems, effectively removing scale and ensuring optimal system performance. Additionally, it's well-suited for cleaning and eliminating scale in air coolers on the sea water side. For heating and cooling systems, including boilers, condensers, evaporators, and heat exchangers, it efficiently tackles the removal of water scale and rust scale, contributing to improved equipment longevity and performance. Its adaptability and effectiveness make it an ideal choice for a wide range of applications.

Advantages

- ▶ Swift and efficient scale removal.
- ▶ Leaves surfaces free of rust.
- ▶ Contains a descaling accelerator to boost its effectiveness.
- ▶ Inhibited against corrosive attacks.
- ▶ Includes a pH-sensitive indicator.
- ▶ Rapid rinsing.
- ▶ Comes in powder form, making handling and storage safer and more convenient.

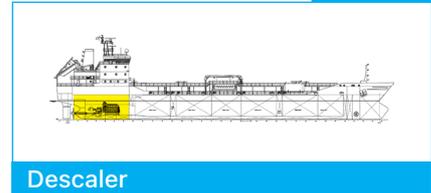
Directions For Use – Product Dose

Descaling can be accomplished by circulation, for large components and systems, by in-situ soaking, or by soaking in an immersion bath for small components. The most effective method is by circulation as it ensures renewal of acid film in contact with the scale.

Circulation method

1. If deposits to be removed are covered with an oil or grease film, a degreasing treatment with a solution of 2% to 8% of ALKACLEAN, CARBON REMOVER, SEACLEAN with water should be used prior to descaling, by circulating for 4 to 6 hours up to a temperature of 60°C.

USAGE AREAS



PACKAGING



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2. After degreasing (where necessary) a descaling treatment of a solution of 5% to 10% by weight of SAFE DESCALER with water should be circulated for between 24 to 36 hours for hardness scale, and 1 to 4 hours for de-rusting, depending on nature and state of deposits. To avoid saturating the solution, do not exceed a solution strength of 10%.
3. Ensure circuit is vented at the highest point to release gases produced during the descaling operations.
4. Product solution may be heated to increase the descaling process rate up to a maximum of 60°C. Over 35°C slight corrosive action may occur on light alloys and galvanised surfaces.
5. Check the acid concentration of the solution regularly by observing its state and colour. Initial colour is pink and if the colour turns yellow, or if effervescence disappears, regenerate the solution by adding more SAFE DESCALER until solution regains initial colour. To avoid the possibility of a saturated solution, no more than 2 additions should be made. If further treatment is necessary the circuit should be drained and a fresh charge introduced.
6. By placing scale samples in easily observed positions, a check on the progress of the descaling operation may be made. When the samples are completely dissolved and effervescence has stopped, circulate for one more hour then drain system thoroughly.
7. Rinse system thoroughly with water then drain.
8. To neutralise any remaining traces of acid and to passivate the circuit, circulate a 1% to 2% by weight solution of ALKALINITY CONTROL for 2 to 6 hours.
9. Neutralise acidic effluents drained from the descaling solutions by using ALKALINITY CONTROL until an acceptable pH value is obtained.

Soaking Method

- ▶ Procedure is similar to that for circulation, i.e. Degreasing, Descaling (ensuring venting), Rinsing and Neutralising.
- ▶ The same solution strength should be used.
- ▶ If agitation of the descaling solution can be practised, this will help to renew the acid film coming into contact with the scale.

Safety and Environment (HSE)

Uniservice Unisafe Srl have carefully developed their products to minimize the safety risks and environmental impact of using their products. However, Uniservice

advises that, prior to using its products, users should read in detail the accompanying Safety Data Sheet and ensure that its products are applied within the required HSE regulations of the country in which the user operates. Best practice and safety requirements should be followed which will likely include method statements and risk assessments, together with any specific requirements of the user's own company HSE requirements.

Important Notice

While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, this information is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you do a test to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data and information furnished by Uniservice Unisafe Srl hereunder are given gratis, and Uniservice Unisafe Srl assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk. Product images are for reference purposes only.

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