

Technical information sheet

Beizer 640

Scale and rust remover

Product characterisation

Beizer 640 is an acid product on the basis of mineral acid, corrosion inhibitors, dispersants and a wetting agent. **Beizer 640** is used for the chemical cleaning of water-bearing systems which contain lime and rust.

Product description

- Removes lime, rust and contaminants containing oil and fat
- Undermines deposits and removes these from metallic surfaces to some extent
- Disperses insoluble contaminant particles
- Emulsifies constituents containing fat
- Passivates steel and grey cast iron surfaces
- Corrosion inhibiting effect on steel, stainless steel, copper, copper alloys, aluminium, chromed and galvanized components at the recommended application concentration and period

Product data

Appearance: greenish, clear liquid
 pH-value (10 % by weight): 1.1 ± 0.3
 Density (20°C) g/cm³: $1.37 \pm 0,02$

Product application

Please refer to the following table for the application concentration:

Material	Steel / Stainless steel / Copper	Chromed parts / Grey-cast iron	Galvanized components
Application concentration in % by weight	10 - 20	10	The application concentration and application period should be agreed with us if galvanized materials are present.
Working temperature in °C	max. 50	max. 25	
Application period in hours	max. 24	max. 8	

Circulate the cleaning solution either using the pump in the circuit or by means of a separate pump. The cleaning process is to be monitored by determining the pH value of the cleaning solution. If the pH-value remains constantly below 2, removal of the lime scale has been completed. If the pH values are above 2, the cleaning solution should be topped up with **Beizer 640**.

After cleaning has been completed, rinse the plant thoroughly with water, then rinse it with **ST-DOS N-730** solution (see Technical information sheet for **ST-DOS N-730**).

After rinsing with fresh water, the pH-value of the system water should be >6 and the PO₄ content <100 g/m³.

Further information

All components (pumps, hoses) coming in contact with the undiluted product must be of acid-resistant material (e.g. PE, PP, PVC).

Take note of the information stated on the product label, the safety data sheet as well as the local waste water regulations and the provisions of the relevant accident prevention regulations of the trade associations, in particular BGV A1, when handling **Beizer 640**.

Ensure that the working areas are well ventilated while cleaning is being carried out.

The working solution of **Beizer 640** must be neutralised. The local waste water regulations are to be complied with when discharging the **Beizer 640** working solution.

10 - 15 l of **ST-DOS N-720** is required to neutralise 100 l of a 10 % by weight working solution of **Beizer 640** after cleaning has been carried out (see Technical information sheet for **ST-DOS N-720**).

The above information in this technical information sheet corresponds to our current state of knowledge and our current technical experience. It does not represent any legal guarantee of specified characteristics or suitability for a specific use or designed use. On account of the large number of possible influences, it also does not absolve the user from carrying out his own tests and safety precautions.