

**NEW**



Industrial Water Treatment

# GENERATION

**New high-performance strong  
acidic cation exchange resin for  
efficient water softening**

Lewatit® S 1667

**X Lewatit®**

**LANXESS**  
Energizing Chemistry

# LEWATIT® S 1667 – BEST SOLUTION FOR WATER SOFTENING

■ Lewatit® S 1667 is a monodisperse, strong acidic cation exchanger, which was newly developed for industrial water softening.

## ■ Solid stability and proven monodispersity

The uniform particle size ion exchange resin results in an even hydraulic flow through the filter. This provides optimal utilization of the regenerant and efficient rinsing. The unique production process of the matrix results in a high chemical and mechanical stability. Lewatit® S 1667 is particularly economic due to the long resin life.

## ■ Low amount of fines

The very low volume of problematic fines (< 0.4 mm max. 0.4 Vol. %) results in a low pressure drop. The high stability of the ion exchange matrix results in minimal degradation during regeneration, resulting in a long resin life.

## ■ Improved oxidative stability

Oxidative agents (for example free chlorine Cl<sub>2</sub>) in the feed water can lead to degradation of the ion exchange matrix.

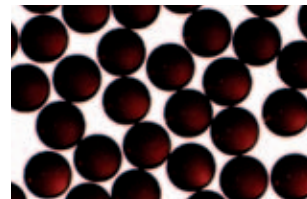
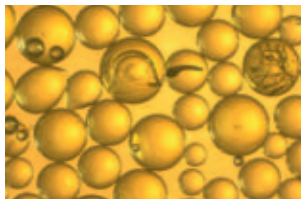
The new production process used for the Lewatit® S 1667 better protects against oxidative attack and therefore prolongs the useful life of this ion exchange resin.

## ■ Increased capacity

The optimized functionality of this resin provides a longer cycle time between regenerations (Total capacity min. 2.1 eq/l). Thus without compromising leakage, less regeneration is required and the economics of operation are improved.

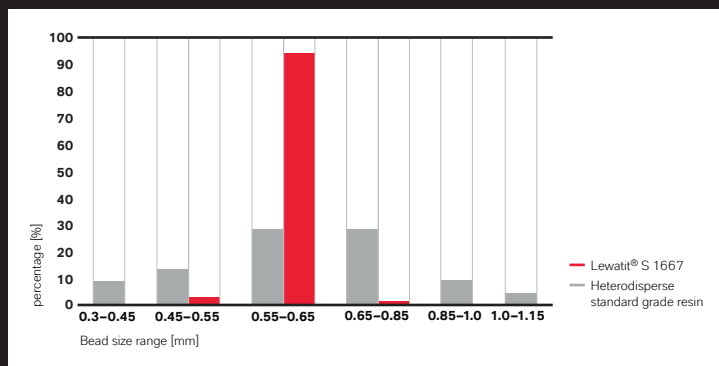
### ADVANTAGES AT A GLANCE

- Genuine monodisperse production process
- High mechanical strength and chemical resistance
- Low level of fines
- Improved oxidative stability
- Economical operational cost due to increased capacity



Standard bead size distribution of competitive material with low performance in pressure drop and operating capacity

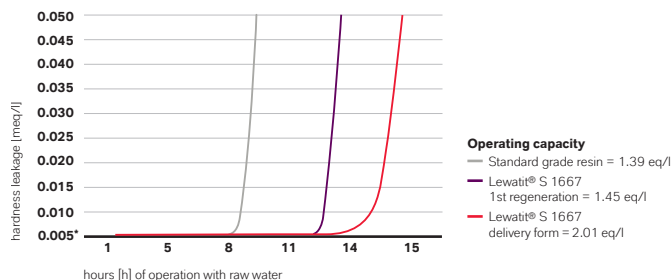
High performance of Lewatit® S 1667 due to low fines content and excellent chemical and mechanical stability



Bead size distribution of Lewatit® S 1667

#### Terms and conditions

Amount of hardness in the raw water: 4.03 meq/l  
 Endpoint: 0.4 meq/l Ca<sup>2+</sup>  
 Specific flow rate: 33.0 BV/h  
 Regeneration: 150 g/l NaCl as 10 % solution



### Hardness leakage in a co-current application with Lewatit® S 1667

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.

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