

**Lewatit® A 365** is a premium food grade, gel type, weak base anion exchange resin based on a polyacrylate polymer. **Lewatit® A 365** is designed to offer exceptional high operating capacity, good physical stability and excellent resistance to mechanical osmotic shock. The acrylic matrix of **Lewatit® A 365** offers rapid kinetics for common anions, including larger, more bulky, anions like sulfate. **Lewatit® A 365** is fully regenerable with NaOH and other weak bases. As **Lewatit® A 365** is a true weak base resin, the regenerant consumption is close to stoichiometric. **Lewatit® A 365** is recommended for applications including demineralisation of high TDS waters, selective sulfate removal, purification of aqueous solutions, including decolorisation applications and once-through cartridge applications.

**Lewatit® A 365** is supplied in a heterodispersed particle size distribution as spherical beads in the fully swollen moist free base form. **Lewatit® A 365** is prepared with a minimum amount of fines (-50 mesh particles) resulting in low pressure losses during service.

The special properties of this product can only be fully utilized if the technology and process used correspond to the current state-of-the-art. Further advice in this matter can be obtained from Lanxess, Business Unit Ion Exchange Resins.

## General Description

Ionic form as shipped	Free base
Functional group	Polyamine
Matrix	Acrylate / DVB
Structure	Gel
Appearance	Yellow-white, opaque

## Physical and Chemical Properties

		<b>metric units</b>	
Total capacity*		min. eq/l	3.4
Uniformity Coefficient*		max.	1.7
Effective size		mm	> 0,4
Bulk density	(+/- 5 %)	g/l	730
Density		approx. g/ml	1.13
Water retention		wt. %	44 - 51
Volume change	FB --> Cl <sup>-</sup>	max. vol. %	16
Stability	at pH-range		0 - 14
Stability	temperature range	°C	1 - 70
Storability	of the product	max. years	2
Storability	temperature range	°C	-20 - +40

\* Specification values subjected to continuous monitoring.

### Recommended Operating Conditions\*

		metric units	
Operating temperature		max. °C	60
Operating pH-range			0 - 9
Bed depth		min. mm	800
Pressure drop		max. kPa	200
Linear velocity	exhaustion	max. m/h	5 - 40
Freeboard	backwash (extern / intern)	vol. %	80 - 100
Regenerant			NaOH
Linear velocity	regeneration	approx. m/h	1 - 10
Volumetric flow rate	exhaustion	BV/h	4 - 30
Regenerant	level	approx. g/l	80 - 160
Regenerant	concentration	approx. wt. %	3 - 5
Linear velocity	rinse, slow / fast	m/h	1 - 10 / 5 - 60
Volumetric flow rate	regeneration	BV/h	1.5 - 4
Volumetric flow rate	rinse, slow / fast	approx. BV/h	1.5 - 4 / 8 - 30
Rinse water requirement	slow / fast	approx. BV	1 - 2,5 / 3 - 8

\* The recommended operating conditions refer to the use of the product under normal operating conditions. It is based on tests in pilot plants and data obtained from industrial applications. However, additional data are needed to calculate the resin volumes required for ion exchange units. These data are to be found in our Technical Information Sheets.

## Additional Information & Regulations

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### **Safety precautions**

Strong oxidants, e.g. nitric acid, can cause violent reactions if they come into contact with ion exchange resins.

### **Toxicity**

The safety data sheet must be observed. It contains additional data on product description, transport, storage, handling, safety and ecology.

### **Disposal**

In the European Community ion exchange resins have to be disposed, according to the European waste nomenclature which can be accessed on the internet-site of the European Union.

### **Storage**

It is recommended to store ion exchange resins at temperatures above the freezing point of water under roof in dry conditions without exposure to direct sunlight. If resin should become frozen, it should not be mechanically handled and left to thaw out gradually at ambient temperature. It must be completely thawed before handling or use. No attempt should be made to accelerate the thawing process.

This information and our technical advice – whether verbal, in writing or by way of trials – are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery.

This document contains important information and must be read in its entirety.

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