

**Lewatit® K 2625** is a strongly acidic, macroporous, palladium-doped, polymer-based resin in spherical bead form, with sulfonic acid groups. It is ideally suited as a multifunctional heterogeneous catalyst for organic reactions.

A large pore structure, a high degree of crosslinking and good mechanical stability enable this catalyst to be used in both polar and non-polar media.

It is capable of simultaneously functioning as an acid- and hydrogenation-catalyst.

**Lewatit® K 2625** is specially designed for use in the:

- » etherol process: In its hydrogenation and isomerization functions, this catalyst has very high sulfur resistivity and is capable of tolerating up to 60 ppm mercaptan sulfur, 220 ppm total sulfur and 2 - 2.5% diolefins.
- » production of MIBK

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	H <sup>+</sup> / Pd <sup>2+</sup> (2 g Pd/l)
Functional group	sulfonic acid
Matrix	crosslinked polystyrene
Appearance	opaque beads

## Physical and Chemical Properties

		metric units	
Total capacity*		min. eq/l	1.4
Uniformity Coefficient*		max.	1.6
Bead size*	> 90 %	mm	0.4 - 1.2 5
Effective size*		mm	0.5 - 0.6 0 2
Fines	< 0.315 mm		typical 0.5 % <
Bulk density	(+/- 5 %)	g/l	760
Water retention		wt. %	57 - 63
Surface area	BET	approx. m <sup>2</sup> /g	40
Pore volume		approx. cm <sup>3</sup> /g	0.6
Pore diameter	average	nm	65
Stability	temperature range	°C	-20 - 120
Storability	of the product	max. years	2
Storability	temperature range	°C	-20 - 40

\* Specification values subjected to continuous monitoring.

## 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.

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.

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

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**LENNTECH**

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