

**Lewatit® K 2624** is a strongly acidic, macroporous, palladium-doped, polymer-based resin in spherical bead form, with sulfonic acid groups. It is ideally suited for processing liquid organic media. A large pore structure, a high degree of crosslinking and good mechanical stability enable this resin to be used in both polar and non-polar media, particularly in the following applications:

- Hydroisomerization and etherification reactions; especially suited for the production of the gasoline additives MTBE and TAME, when feed streams contain small amounts of gum forming dienes and acetylenes
- Production of methyl isobutyl ketone (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 Liquid Purification Technologies.

## Common Description

|                  |                                   |
|------------------|-----------------------------------|
| Delivery form    | H <sup>+</sup> / Pd <sup>2+</sup> |
| Functional group | sulfonic                          |
| Matrix           | styrenic                          |
| Structure        | macroporous                       |
| Appearance       | beige, opaque                     |

## Specified Data

|                                         |     |           |           |
|-----------------------------------------|-----|-----------|-----------|
| Uniformity coefficient                  |     | max.      | 1.6       |
| Range of size for >90 vol% of all beads |     | mm        | 0.40-1.25 |
| Effective size                          | d10 | mm        | 0.50-0.62 |
| Total capacity (delivery form)          |     | min. eq/L | 1.4       |

### Typical Physical and Chemical Properties

|                                 |          |                            |           |
|---------------------------------|----------|----------------------------|-----------|
| Bulk density for shipment       | (+/- 5%) | g/L                        | 700       |
| Density                         |          | approx. g/mL               | 1.15      |
| Water retention (delivery form) |          | approx. weight %           | 57-63     |
| Stability temperature range     |          | °C                         | 1-125     |
| Storage temperature range       |          | °C                         | -20 - +40 |
| Surface BET                     |          | approx. m <sup>2</sup> /g  | 40        |
| Pore volume                     |          | approx. cm <sup>3</sup> /g | 0.6       |
| Pore diameter                   |          | approx. nm                 | 65        |

## Additional Information & Regulations

### 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.

### Packaging

The experience has shown that the packaging stability for reliable resin containment is limited to 24 months under the storage conditions described above. It is therefore recommended to use the product within this time frame; otherwise the packaging condition should be checked regularly.

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



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