

Lewatit® K 2420 is a strongly acidic, medium crosslinked, macroporous, polymer-based catalyst in spherical bead form, with sulfonic acid groups.

It is ideally suited as a heterogeneous catalyst for organic reactions and for the processing of aqueous and organic liquids at temperatures up to 150°C.

A special process has been used to hyper-activate the sulfonic acid groups of the reactive centres, increasing the acidity and reactivity of this catalyst relative to conventionally sulfonated polymer catalysts.

Lewatit® K 2420 is especially suitable for:

- » Phenol alkylations and transalkylations
- » Hydration of olefins
- » Esterification, etherification, condensation reactions
- » Alkylation of larger polar and non-polar molecules

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 ⁺
Functional group	sulfonic acid
Matrix	crosslinked polystyrene
Structure	porous beads

Physical and Chemical Properties

		metric units	
Total capacity*	dry form	min. eq/kg	5.4
Total capacity*		min. eq/l	1.4
Uniformity Coefficient*		max.	1.7
Bead size*	> 90 %	mm	0.5 - 1.6
Effective size*		mm	0.56 - 0.66
Fines*	< 0.315 mm	max. vol. %	0.2
Bulk density	(+/- 5 %)	g/l	740
Density		approx. g/ml	1.12
Water retention		wt. %	63 - 68
Surface area	BET	approx. m ² /g	30
Pore volume		approx. cm ³ /g	0.40
Pore diameter	average	nm	53
Storability	of the product	max. years	2
Storability	temperature range	°C	-20 - 40

* Specification values subjected to continuous monitoring.

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.

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