

# QUALITY PERFORMS.



## Product Guide

Portfolio of **Lewatit®** ion exchange resins and **Bayoxide®** iron oxide adsorbers.

**X Lewatit®**   **X Bayoxide®**

**QUALITY WORKS.**

**LANXESS**  
Energizing Chemistry

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## MINING & HYDROMETALLURGY

### Chelating Resins

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min. (H Form)	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® MDS TP 208	Styrene/DVB macroporous	Na <sup>+</sup>	700	MD: 0.38 (+/- 0.04)	1.15	2.8	-35 (Na <sup>+</sup> →H <sup>+</sup> )	58–63	Lithium brine purification
Lewatit® MDS TP 220	Styrene/DVB macroporous	H <sub>2</sub> SO <sub>4</sub> salt	725	MD: 0.38 (+/- 0.04)	1.15	36 g/l Cu capacity	-30 (del. → free base)	50–58	Nickel cobalt separation
Lewatit® MDS TP 260	Styrene/DVB macroporous	Na <sup>+</sup>	740	MD: 0.40 (+/- 0.04)	1.15	3.0	-35 (Na <sup>+</sup> →H <sup>+</sup> )	60–65	Lithium brine purification, copper electrolyte purification
Lewatit MonoPlus® TP 207	Styrene/DVB macroporous	Na <sup>+</sup>	700	MD: 0.61 (+/- 0.05)	1.1	2.0	-25 (Na <sup>+</sup> →H <sup>+</sup> )	55–60	Base metal recovery, uranium recovery from hypersaline solutions
Lewatit MonoPlus® TP 208	Styrene/DVB macroporous	Na <sup>+</sup>	700	MD: 0.65 (+/- 0.05)	1.1	2.5	-30 (Na <sup>+</sup> →H <sup>+</sup> )	58–63	Lithium brine purification
Lewatit MonoPlus® TP 209 XL	Styrene/DVB macroporous	Na <sup>+</sup>	710	MD: 0.85 (+/- 0.05)	1.1	2.4	-35 (Na <sup>+</sup> →H <sup>+</sup> )	48–53	Base metal recovery from pulps
Lewatit MonoPlus® TP 214	Styrene/DVB macroporous	H <sup>+</sup>	660	MD: 0.55 (+/- 0.05)	1.1	110 g/l Ag capacity	–	55–60	Mercury removal, Cadmium removal from nickel and cobalt concentrates, precious metal recovery
Lewatit MonoPlus® TP 220	Styrene/DVB macroporous	H <sub>2</sub> SO <sub>4</sub> salt	670	MD: 0.62 (+/- 0.05)	1.1	29 g/l Cu capacity	-23 (del. → free base)	50–55	Nickel cobalt separation
Lewatit MonoPlus® TP 260	Styrene/DVB macroporous	Na <sup>+</sup>	720	MD: 0.63 (+/- 0.05)	1.1	2.4	-35 (Na <sup>+</sup> →H <sup>+</sup> )	58–63	Lithium brine purification, copper electrolyte purification

## MINING & HYDROMETALLURGY

### Strong Base Anion Exchange Resins

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® K 6362	Styrene/DVB gel	Cl <sup>-</sup>	690	MD: 0.62 (+/- 0.05)	1.1	1.3	22 (Cl <sup>-</sup> →OH <sup>-</sup> )	48–55	Recovery of uranium and anionic metal complexes
Lewatit® K 6367	Styrene/DVB gel	Cl <sup>-</sup>	630	MD: 0.92 (+/- 0.05)	1.2	1.2	20 (Cl <sup>-</sup> →OH <sup>-</sup> )	49–54	Recovery of uranium and anionic metal complexes from pulps
Lewatit® K 6462	Styrene/DVB gel	Cl <sup>-</sup>	650	MD: 0.59 (+/- 0.05)	1.1	1.4	20 (Cl <sup>-</sup> →OH <sup>-</sup> )	45–50	Recovery of uranium and anionic metal complexes

## MINING & HYDROMETALLURGY

### Weak Base Anion Exchange Resins

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® A 365	Polyacrylate macroporous	FB	720	HD: 0.4–1.6	1.8	3.4	25 (FB→Cl <sup>-</sup> )	43–54	Uranium recovery from saline solutions
Lewatit® MP 62 WS	Styrene/DVB macroporous	FB	620	HD: 0.4–1.25	1.6	1.7	45 (FB→Cl <sup>-</sup> )	44–52	Metal recovery from hydrochloric acid, vanadium and molybdenum recovery

## MINING & HYDROMETALLURGY

### Adsorber & Solvent Impregnated Resins

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): <small>Monodisperse (MD, mean value) Heterodisperse: (HD, share &gt; 90%)</small>	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® TP 272	Styrene/DVB macroporous	H <sup>+</sup>	590	HD: 0.3–1.6	1.8	12.5 g/l Zn capacity	-	-	Nickel/cobalt separation
Lewatit® VP OC 1026	Styrene/DVB macroporous	H <sup>+</sup>	590	HD: 0.3–1.6	1.9	13 g/l Zn capacity	-	28–33	Nickel/cobalt electrolyte purification

## CATALYSIS, CHEMICALS PROCESSING, & CHLOR-ALKALI

### Chelating Resins

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): <small>Monodisperse (MD, mean value) Heterodisperse: (HD, share &gt; 90%)</small>	Uniformity Coefficient max.	Total Capacity (eq/l) min. (H Form)	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® MDS TP 208	Styrene/DVB macroporous	Na <sup>+</sup>	700	MD: 0.38 (+/- 0.04)	1.15	2.8	-35 (Na <sup>+</sup> →H <sup>+</sup> )	58–63	Hardness removal from brines
Lewatit® MDS TP 260	Styrene/DVB macroporous	Na <sup>+</sup>	740	MD: 0.40 (+/- 0.04)	1.15	3.0	-35 (Na <sup>+</sup> →H <sup>+</sup> )	60–65	Hardness removal from brines
Lewatit MonoPlus® TP 207	Styrene/DVB macroporous	Na <sup>+</sup>	700	MD: 0.61 (+/- 0.05)	1.1	2.0	-25 (Na <sup>+</sup> →H <sup>+</sup> )	55–60	Nickel removal from brines
Lewatit MonoPlus® TP 208	Styrene/DVB macroporous	Na <sup>+</sup>	700	MD: 0.65 (+/- 0.05)	1.1	2.5	-30 (Na <sup>+</sup> →H <sup>+</sup> )	58–63	Hardness removal from brines
Lewatit MonoPlus® TP 214	Styrene/DVB macroporous	H <sup>+</sup>	660	MD: 0.55 (+/- 0.05)	1.1	110 g/l Ag capacity	-	55–60	Mercury removal from brines
Lewatit MonoPlus® TP 260	Styrene/DVB macroporous	Na <sup>+</sup>	720	MD: 0.63 (+/- 0.05)	1.1	2.4	-35 (Na <sup>+</sup> →H <sup>+</sup> )	58–63	Hardness removal from brines

**CATALYSIS, CHEMICALS PROCESSING, & CHLOR-ALKALI**
**Strong Acidic Cation Exchange Resins**

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® GF 101	Styrene/DVB macroporous	H <sup>+</sup>	710	HD: 0.4–1.25	1.6	4.7 eq/kg (dry)	-	58–63	Biodiesel, FFA esterification
Lewatit® GF 202	Styrene/DVB macroporous	Neutral	740	MD: 0.65 (+/- 0.05)	1.1	-	-	52–57	Biodiesel purification
Lewatit® K 1161	Styrene/DVB gel	H <sup>+</sup>	710	MD: 1.05 (+/- 0.15)	1.1	0.7	-	75–80	BPA production
Lewatit® K 1167	Styrene/DVB gel	H <sup>+</sup> /promoted	690	MD: 1.05 (+/- 0.15)*	1.1	0.7*	-	75–80*	BPA production
Lewatit® K 1261	Styrene/DVB gel	H <sup>+</sup>	760	MD: 0.74 (+/- 0.07)	1.1	1.2	-	61–66	BPA production
Lewatit® K 1267	Styrene/DVB gel	H <sup>+</sup> /promoted	720	MD: 0.74 (+/- 0.07)*	1.1	1.2*	-	61–66*	BPA production
Lewatit® K 1461 black	Styrene/DVB gel	H <sup>+</sup>	790	MD: 0.65 (+/- 0.06)	1.1	1.8	-	45–55	Esterification
Lewatit® K 2420	Styrene/DVB macroporous	H <sup>+</sup>	760	HD: 0.5–1.6	1.7	1.4	-	62–67	Phenol purification
Lewatit® K 2431	Styrene/DVB macroporous	H <sup>+</sup>	700	HD: 0.5–1.6	1.7	1.2	-	63–68	Phenol purification, esterification
Lewatit® K 2440	Styrene/DVB macroporous	H <sup>+</sup>	710	HD: 0.4–1.6	1.7	5.4 eq/kg (dry)	-	-	Phenol alkylation
Lewatit® K 2620	Styrene/DVB macroporous	H <sup>+</sup>	760	HD: 0.4–1.25	1.6	1.9	-	50–55	Etherification, esterification
Lewatit® K 2640	Styrene/DVB macroporous	H <sup>+</sup>	570	HD: 0.4–1.25	1.6	5.2 eq/kg (dry)	-	-	Etherification, esterification
Lewatit® K 2621	Styrene/DVB macroporous	H <sup>+</sup>	700	HD: 0.4–1.25	1.6	1.4	-	57–63	Etherification, esterification, hydrolysis
Lewatit® K 2624	Styrene/DVB macroporous	H <sup>+</sup> /Pd	700	HD: 0.4–1.25	1.6	1.4	-	57–63	Isomerization/hydrogenation/etherification
Lewatit® K 2629	Styrene/DVB macroporous	H <sup>+</sup>	730	HD: 0.4–1.25	1.7	1.6	-	50–55	Etherification, esterification
Lewatit® K 2649	Styrene/DVB macroporous	H <sup>+</sup>	600	HD: 0.4–1.25	1.7	4.7 eq/kg (dry)	-	-	Phenol alkylation
Regler ZL	Styrene/DVB gel	H <sup>+</sup>	520	< 0.032	-	5.0 eq/kg (dry)	-	-	Catalysis

\* Value of the unpromoted precursor

**CATALYSIS, CHEMICALS PROCESSING, & CHLOR-ALKALI**
**Strong Base Anion Exchange Resins**

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® K 7333	Styrene/DVB gel	OH <sup>-</sup> /Pd	700	MD: 0.63 (+/- 0.05)	1.1	-	-	58–63	Deoxygenation
Lewatit® S 6368 A	Styrene/DVB macroporous	Cl <sup>-</sup>	600	MD: 0.62 (+/- 0.05)	1.1	1.0	22 (Cl <sup>-</sup> →OH <sup>-</sup> )	60–65	Iodide removal from sodium chloride brines

## CATALYSIS, CHEMICALS PROCESSING, & CHLOR-ALKALI

### Weak Base Anion Exchange Resins

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): <small>Monodisperse (MD, mean value) Heterodisperse: (HD, share &gt; 90%)</small>	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® K 3433	Styrene/DVB macroporous	FB/Pd	630	HD: 0.4–1.25	1.6	-	-	46–51	Deoxygenation
Lewatit® MP 62 WS	Styrene/DVB macroporous	FB	620	HD: 0.4–1.25	1.6	1.7	45 (FB→Cl <sup>-</sup> )	44–52	Acid removal
Lewatit® MP 62 WS Dried	Styrene/DVB macroporous	FB	340	HD: 0.4–1.25 (wet)	1.6	1.7 (wet)	-	< 0.5 (residual moisture)	Production of high-purity silicon
Lewatit® VP OC 1065	Styrene/DVB macroporous	FB	630	HD: 0.3–1.25	1.8	2.2	-	47–52	CO <sub>2</sub> /COS capture, aldehyde removal

## CATALYSIS, CHEMICALS PROCESSING, & CHLOR-ALKALI

### Adsorber & Carrier

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): <small>Monodisperse (MD, mean value) Heterodisperse: (HD, share &gt; 90%)</small>	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® GF 808	Acrylic	-	630	HD: 0.315–1.0	2.0	-	-	55–60	Biodiesel, enzyme carrier

## POTABLE WATER

### Chelating Resins

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): <small>Monodisperse (MD, mean value) Heterodisperse: (HD, share &gt; 90%)</small>	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit MonoPlus® TP 207	Styrene/DVB macroporous	Na <sup>+</sup>	700	MD: 0.61 (+/- 0.05)	1.1	2.0	-25 (Na <sup>+</sup> →H <sup>+</sup> )	55–60	Heavy metal removal from groundwater

**POTABLE WATER**

**Weak Acidic Cation Exchange Resins**

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max. approx.	Water Retention (%)	Applications
Lewatit® CNP LF	Polyacrylate macroporous	H <sup>+</sup>	750	HD: 0.315–1.6	1.8	4.3	7 (H <sup>+</sup> →Ca <sup>2+</sup> )	43–49	Cartridge/dealkalization
Lewatit® CNP LF Na	Polyacrylate macroporous	H <sup>+</sup> /Na <sup>+</sup>	780	HD: 0.4–1.25	1.8	4.3 (H)	7 (H <sup>+</sup> →Ca <sup>2+</sup> )	48–56	Cartridge/softening, dealkalization
Lewatit® CNP P	Polyacrylate macroporous	H <sup>+</sup>	770	HD: 0.4–1.6	1.8	4.5	7 (H <sup>+</sup> →Ca <sup>2+</sup> )	44–58	Cartridge/dealkalization
Lewatit® S 8107	Polyacrylate macroporous	H <sup>+</sup>	990	HD: 0.1–0.5	1.8	3.0	7 (H <sup>+</sup> →Ca <sup>2+</sup> )	44–58	Cartridge/dealkalization
Lewatit® S 8223	Polyacrylate macroporous	H <sup>+</sup>	740	HD: 0.315–1.6	1.9	3.4	7 (H <sup>+</sup> →Ca <sup>2+</sup> )	53–63	Cartridge/dealkalization
Lewatit® S 8227	Polyacrylate macroporous	H <sup>+</sup>	770	HD: 0.4–1.6	1.8	4.3	7 (H <sup>+</sup> →Ca <sup>2+</sup> )	47–53	Cartridge/dealkalization
Lewatit® S 8227 Ca	Polyacrylate macroporous	Ca <sup>2+</sup>	790	HD: 0.4–1.6	1.8	4.3 (H)	-10 (Ca <sup>2+</sup> →H <sup>+</sup> )	43–50	Cartridge
Lewatit® S 8227 Mg	Polyacrylate macroporous	Mg <sup>2+</sup>	770	HD: 0.4–1.6	1.8	4.3 (H)	-30 (Mg <sup>2+</sup> →Ca <sup>2+</sup> )	54–60	Cartridge
Lewatit® S 8229	Polyacrylate macroporous	H <sup>+</sup> /Na <sup>+</sup>	770	HD: 0.4–1.6	1.8	4.3 (H)	7 (H <sup>+</sup> →Ca <sup>2+</sup> )	47–53	Cartridge/softening, dealkalization
Lewatit® S 8229 Plus X	Polyacrylate macroporous	H <sup>+</sup> /Na <sup>+</sup>	820	HD: 0.4–1.6	1.8	4.3 (H)	-4 (H <sup>+</sup> /Na <sup>+</sup> →Ca <sup>2+</sup> )	58–63	Cartridge/softening, dealkalization
Lewatit® S 8229 Plus Ag	Polyacrylate macroporous	H <sup>+</sup> /Na <sup>+</sup> /Ag	790	HD: 0.4–1.6	1.8	4.3 (H)	-25 (H <sup>+</sup> /Na <sup>+</sup> →Ca <sup>2+</sup> )	58–64	Cartridge/softening, dealkalization

**POTABLE WATER**

**Strong Base Anion Exchange Resins**

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® DW 630	Styrene/DVB macroporous	SO <sub>4</sub> <sup>2-</sup>	650	MD: 0.62 (+/- 0.05)	1.1	1.1	16 (during exhaustion)	58–63	Uranium removal
Lewatit® S 5128	Polyacrylate gel	Cl <sup>-</sup>	730	HD: 0.50–0.75 (effective size)	1.8	1.35	25 (Cl <sup>-</sup> →OH <sup>-</sup> )	48–55	Natural organic matter removal
Lewatit® MonoPlus® SR 7	Styrene/DVB macroporous	Cl <sup>-</sup>	610	MD: 0.62 (+/- 0.05)	1.1	0.6	-	59–64	Nitrate removal
Lewatit® TP 106	Styrene/DVB gel	Cl <sup>-</sup>	690	HD: 0.40–0.55 (effective)	1.7	0.65	-	37–47	Perchlorate removal
Lewatit® TP 107	Polyacrylate macroporous	Cl <sup>-</sup>	740	HD: 0.45–0.65 (effective)	1.8	2.4	-	30–42	Chromate removal



## POTABLE WATER

### Adsorbers

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Bayoxide® E 33	α - FeOOH	-	460 - 570	0.315–2.0	-	-	0 (during exhaustion)	20	Arsenic/phosphate removal
Bayoxide® E 216	α - FeOOH	-	500	< .5	-	-	0 (during exhaustion)		Arsenic/phosphate removal

## WASTE WATER TREATMENT & RECYCLING

### Chelating Resins

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® MDS TP 220	Styrene/DVB macroporous	H <sub>2</sub> SO <sub>4</sub> salt	725	MD: 0.38 (+/- 0.04)	1.15	36 g/l Cu capacity	-30 (del.→ free base)	50–58	Chromium(III) bath purification
Lewatit MonoPlus® TP 207	Styrene/DVB macroporous	Na <sup>+</sup>	700	MD: 0.61 (+/- 0.05)	1.1	2.0	-25 (Na <sup>+</sup> →H <sup>+</sup> )	55–60	Heavy metal removal from effluents
Lewatit MonoPlus® TP 214	Styrene/DVB macroporous	H <sup>+</sup>	660	MD: 0.55 (+/- 0.05)	1.1	110 g/l Ag capacity	-	54–60	Mercury removal, precious metal recovery
Lewatit MonoPlus® TP 220	Styrene/DVB macroporous	H <sub>2</sub> SO <sub>4</sub> salt	670	MD: 0.62 (+/- 0.05)	1.1	29 g/l Cu capacity	-23 (del.→ free base)	50–55	Chromium(III) bath purification

## WASTE WATER TREATMENT & RECYCLING

### Strong Acidic Cation Exchange Resins

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® K 2629	Styrene/DVB macroporous	H <sup>+</sup>	730	HD: 0.4–1.25	1.7	1.6	-	50–55	Heavy metal removal from chromium(VI) baths, phosphoric/ sulphuric acid purification
Lewatit MonoPlus® SP 112 H	Styrene/DVB macroporous	H <sup>+</sup>	720	MD: 0.67 (+/- 0.05)	1.1	1.6	-9 (H <sup>+</sup> →Na <sup>+</sup> )	56–60	

## WASTE WATER TREATMENT & RECYCLING

### Strong Base Anion Exchange Resins

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® A 8071	Acrylic, gel	Cl <sup>-</sup>	740	HD: 0.4–1.6	1.8	1.35	25 (Cl <sup>-</sup> →OH <sup>-</sup> )	48–55	Acid retardation
Lewatit® K 6362	Styrene/DVB gel	Cl <sup>-</sup>	690	MD: 0.62 (+/- 0.05)	1.1	1.3	22 (Cl <sup>-</sup> →OH <sup>-</sup> )	48–55	Removal of heavy metals from hydrochloric acid, acid retardation, PFT removal
Lewatit® S 6368 A	Styrene/DVB macroporous	Cl <sup>-</sup>	600	MD: 0.62 (+/- 0.05)	1.1	1.0	22 (Cl <sup>-</sup> →OH <sup>-</sup> )	60–65	Chromate and color removal from effluents, vanadium and molybdenum removal
Lewatit® TP 106	Styrene/DVB gel	Cl <sup>-</sup>	690	HD: 0.38–0.48 (effective)	1.7	0.65	-	37–47	Perchlorate removal
Lewatit® TP 107	Polyacrylate macroporous	Cl <sup>-</sup>	740	HD: 0.49–0.65 (effective)	1.7	2.4	15 (Cl <sup>-</sup> →OH <sup>-</sup> )	30–42	Chromate removal
Lewatit® TP 108	Styrene/DVB gel	Cl <sup>-</sup>	690	HD: 0.38–0.48 (effective)	1.7	0.65	-	27 - 47	PFAS removal

## WASTE WATER TREATMENT & RECYCLING

### Weak Base Anion Exchange Resins

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® A 365	Polyacrylate macroporous	FB	720	HD: 0.4–1.6	1.8	3.4	25 (FB→Cl <sup>-</sup> )	43–54	Sulphate removal
Lewatit® MP 62 WS	Styrene/DVB macroporous	FB	620	HD: 0.4–1.25	1.6	1.7	45 (FB→Cl <sup>-</sup> )	44–52	PFT removal, vanadium and molybdenum removal, precious metal recovery from hydrochloric acid
Lewatit® MonoPlus® MP 68	Styrene/DVB macroporous	FB/Cl <sup>-</sup>	620	MD: 0.55 (+/- 0.05)	1.1	1.3	24 (del. form →OH <sup>-</sup> )	54–60	Chromate removal from effluents

## WASTE WATER TREATMENT & RECYCLING

### Adsorbers & Solvent Impregnated Resins

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® AF 5	Carbon microporous	None	620	HD: 0.4–0.8	-	-	-	-	Organics removal from effluents
Lewatit® VP OC 1026	Styrene/DVB macroporous	H <sup>+</sup>	590	HD: 0.3–1.6	1.9	13 g/l Zn capacity	-	28–33	Chromium(III) bath purification
Lewatit® VP OC 1064 MD PH	DVB/porous	-	600	MD: 0.49 (+/- 0.05)	1.1	-	-	54–63	Organics removal from effluents
Bayoxide® E IN 20	FeO(OH)	-	460-570	0.315–2.0	-	-	0 (during exhaustion)	20	Arsenic/phosphate removal
Bayoxide® E IN 30	FeO(OH)	-	700-900	0.315–2.0	-	-	0 (during exhaustion)	20	Arsenic/phosphate removal

## BIOPROCESSING & PHARMA

### Adsorbers

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® VP OC 1064 MD PH	DVB/porous	-	600	MD: 0.49 (+/- 0.05)	1.1	-	-	54–63	Organics removal from effluents
Lewatit® VP OC 1600	DVB/porous	-	630	HD: 0.315–1.0 share > 80%	1.8	-	-	55–60	Enzyme carrier

## FOOD

### Weak Acidic Cation Exchange Resins

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max. approx.	Water Retention (%)	Applications
Lewatit® S 8528	Polyacrylate macroporous	H <sup>+</sup>	750	HD: 0.4–1.6	1.8	4.3 (H)	70 (H <sup>+</sup> →Na <sup>+</sup> )	43–48	Sugar/ demineralization

## FOOD

### Strong Acidic Cation Exchange Resins

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® S 1568	Styrene/DVB gel	Na <sup>+</sup>	810	MD: 0.60 (+/- 0.05)	1.1	1.8	12 (Na <sup>+</sup> →H <sup>+</sup> )	45–50	Food/lysine/ demineralization
Lewatit® S 1668	Styrene/DVB gel	Na <sup>+</sup>	830	MD: 0.62 (+/- 0.05)	1.1	2.2	12 (Na <sup>+</sup> →H <sup>+</sup> )	41–46	Food/lysine/ demineralization
Lewatit® S 2328	Styrene/DVB macroporous	H <sup>+</sup>	730	HD: 0.315–1.25	1.7	1.0	12 (Na <sup>+</sup> →H <sup>+</sup> )	67–73	Sugar/inversion
Lewatit® S 2568	Styrene/DVB macroporous	Na <sup>+</sup>	740	MD: 0.65 (+/- 0.05)	1.1	1.7	10 (Na <sup>+</sup> →H <sup>+</sup> )	50–55	Food/sugar/sweetener/ demineralization
Lewatit® S 2568 H	Styrene/DVB macroporous	H <sup>+</sup>	720	MD: 0.67 (+/- 0.05)	1.1	1.6	10 (Na <sup>+</sup> →H <sup>+</sup> )	55–61	Food/sugar/sweetener/ mixed bed

**FOOD**

**Weak Base Anion Exchange Resins**

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® S 4228	Styrene/DVB macroporous	FB/Cl <sup>-</sup>	610	HD: 0.4–1.25	1.6	1.6	30 (FB→Cl <sup>-</sup> )	53–59	Food/sweetener/demineralization
Lewatit® S 4268	Styrene/DVB macroporous	FB/Cl <sup>-</sup>	600	MD: 0.59 (+/- 0.05)	1.1	1.3	25 (FB→Cl <sup>-</sup> )	60–65	Food/sweetener/demineralization
Lewatit® S 4328	Styrene/DVB macroporous	FB/Cl <sup>-</sup>	605	HD: 0.4–1.25	1.6	1.4	25 (FB→Cl <sup>-</sup> )	51–58	Food/sweetener/demineralization
Lewatit® S 4468	Styrene/DVB macroporous	FB/Cl <sup>-</sup>	620	MD: 0.55 (+/- 0.05)	1.1	1.6	30 (FB→Cl <sup>-</sup> )	52–57	Food/sweetener/demineralization/low isomerization
Lewatit® S 4528	Styrene/DVB macroporous	FB	620	HD: 0.4–1.25	1.6	1.7	48 (FB→Cl <sup>-</sup> )	42–53	Food/sweetener/demineralization
Lewatit® S 5221	Polyacrylate macroporous	FB	740	HD: 0.4–1.6	1.8	2.8	26 (FB→Cl <sup>-</sup> )	52–63	Food/whey/demineralization
Lewatit® S 5228	Polyacrylate gel	FB	740	HD: 0.4–1.6	1.8	1.6	25 (FB→Cl <sup>-</sup> )	53–61	Food/whey/demineralization
Lewatit® S 5328	Polyacrylate gel	FB/Cl <sup>-</sup>	710	HD: 0.4–1.6	1.8	1.25	14 (FB/Cl <sup>-</sup> →Cl <sup>-</sup> )	56–64	Food/whey/demineralization

**FOOD**

**Strong Base Anion Exchange Resins – Type I**

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® S 5128	Polyacrylate gel	Cl <sup>-</sup>	730	HD: 0.4–1.6	1.8	1.35	25 (Cl <sup>-</sup> →OH <sup>-</sup> )	48–55	Sugar/decolorization
Lewatit® S 5528	Polyacrylate macroporous	Cl <sup>-</sup>	720	HD: 0.4–1.6	1.8	0.85	25 (Cl <sup>-</sup> →OH <sup>-</sup> )	63–71	Sugar/decolorization
Lewatit® S 6268	Styrene/DVB gel	Cl <sup>-</sup>	690	MD: 0.62 (+/- 0.05)	1.1	1.2	25 (Cl <sup>-</sup> →OH <sup>-</sup> )	48–55	Sugar/decolorization
Lewatit® S 6368 A	Styrene/DVB macroporous	Cl <sup>-</sup>	600	MD: 0.62 (+/- 0.05)	1.1	1.0	22 (Cl <sup>-</sup> →OH <sup>-</sup> )	60–65	Sugar/decolorization/demineralization
Lewatit® S 6368 A OH	Styrene/DVB macroporous	OH <sup>-</sup>	650	MD: 0.66 (+/- 0.05)	1.1	0.8	22 (Cl <sup>-</sup> →OH <sup>-</sup> )	72–80	Sugar/decolorization/demineralization
Lewatit® S 6368 A SO4	Styrene/DVB macroporous	SO <sub>4</sub> <sup>2-</sup>	680	MD: 0.63 (+/- 0.05)	1.1	1.0 (Cl <sup>-</sup> )	22 (Cl <sup>-</sup> →OH <sup>-</sup> )	60–65	Sugar/decolorization/demineralization

**FOOD**

**Strong Base Anion Exchange Resins – Type II**

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® S 7468	Styrene/DVB macroporous	Cl <sup>-</sup>	650	MD: 0.60 (+/- 0.05)	1.1	1.0	15 (Cl <sup>-</sup> →OH <sup>-</sup> )	58–63	Sweetener/mixed bed polisher

**FOOD**
**Adsorbers**

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Surface BET (m <sup>2</sup> /g) approx.	Pore Volume (cm <sup>3</sup> /g) approx.	Water Retention (%)	Applications
Lewatit® AF 5	Carbon microporous	None	620	HD: 1.4–1.8	-	1,200	0.15	-	Food/polisher/HMF removal
Lewatit® S 7968	Styrene/DVB macroporous	None	600	MD: 0.49 (+/- 0.05)	1.1	800	1.2	54–63	Food/polisher/debittering

**FOOD**
**Separation Strong Acidic Cation Exchange Resins**

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 10%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® MDS 1268 Ca 290	Styrene/DVB gel	Ca <sup>2+</sup>	800	MD: 0.29 (+/- 0.03)	1.15	1.5 (H)	-	55–67 (H)	Sweetener/glucose/fructose separation
Lewatit® MDS 1268 K 290	Styrene/DVB gel	K <sup>+</sup>	830	MD: 0.29 (+/- 0.03)	1.15	1.5 (H)	-	55–67 (H)	Sugar/separation of molasses
Lewatit® MDS 1268 Ca 310	Styrene/DVB gel	Ca <sup>2+</sup>	800	MD: 0.31 (+/- 0.03)	1.15	1.5 (H)	-	55–67 (H)	Sweetener/glucose/fructose separation
Lewatit® MDS 1268 K 310	Styrene/DVB gel	K <sup>+</sup>	830	MD: 0.31 (+/- 0.03)	1.15	1.5 (H)	-	55–67 (H)	Sugar/separation of molasses
Lewatit® MDS 1268 K 350	Styrene/DVB gel	K <sup>+</sup>	830	MD: 0.35 (+/- 0.03)	1.15	1.5 (H)	-	55–67 (H)	Sugar/separation of molasses
Lewatit® MDS 1368 Ca 290	Styrene/DVB gel	Ca <sup>2+</sup>	780	MD: 0.29 (+/- 0.03)	1.15	1.8 (H)	-	47–53 (H)	Sweetener/glucose/fructose separation
Lewatit® MDS 1368 Ca 320	Styrene/DVB gel	Ca <sup>2+</sup>	780	MD: 0.32 (+/- 0.03)	1.15	1.8 (H)	-	47–53 (H)	Sweetener/glucose/fructose separation
Lewatit® MDS 1368 Ca 350	Styrene/DVB gel	Ca <sup>2+</sup>	780	MD: 0.35 (+/- 0.03)	1.15	1.8 (H)	-	47–53 (H)	Sweetener/glucose/fructose separation
Lewatit® MDS 1368 K 320	Styrene/DVB gel	K <sup>+</sup>	830	MD: 0.32 (+/- 0.03)	1.15	1.8 (H)	-	47–53 (H)	Sugar/separation of molasses
Lewatit® MDS 1368 Na 320	Styrene/DVB gel	Na <sup>+</sup>	820	MD: 0.32 (+/- 0.03)	1.15	1.8 (H)	-	47–53 (H)	Sugar/separation of molasses
Lewatit® MDS 1368 Na 350	Styrene/DVB gel	Na <sup>+</sup>	820	MD: 0.36 (+/- 0.03)	1.15	1.8 (H)	-	47–53 (H)	Sugar/separation of molasses
Lewatit® MDS 1468 Ca 220	Styrene/DVB gel	Ca <sup>2+</sup>	870	MD: 0.22 (+/- 0.03)	1.15	1.8 (H)	-	50–57 (H)	Sweetener/glucose/fructose separation
Lewatit® MDS 2368	Styrene/DVB gel	Na <sup>+</sup>	760	MD: 0.38 (+/- 0.05)	1.15	1.0	-	63–68	Sweetener/size separation

## WATER TREATMENT

### Weak Acidic Cation Exchange Resins

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® CNP 80	Polyacrylate porous	H <sup>+</sup>	750	HD: 0.315–1.6	1.8	4.3	64 (H <sup>+</sup> →Na <sup>+</sup> )	45–50	Water treatment, decarbonization
Lewatit® CNP 80 WS	Polyacrylate porous	H <sup>+</sup>	750	HD: 0.4–1.6	1.8	4.5	64 (H <sup>+</sup> →Na <sup>+</sup> )	45–50	Water treatment, decarbonization

## WATER TREATMENT

### Strong Acidic Cation Exchange Resins

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® C 249	Styrene/DVB gel	Na <sup>+</sup>	830	HD: 0.4–1.25	1.6	2.0	8 (Na <sup>+</sup> →H <sup>+</sup> )	45–48	Water treatment, demineralization
Lewatit® C 267	Styrene/DVB gel	H <sup>+</sup>	830	HD: 0.3–1.25	1.6	1.9	-8 (H <sup>+</sup> →Na <sup>+</sup> )	49–55	Demineralization
Lewatit MonoPlus® S 108	Styrene/DVB gel	Na <sup>+</sup>	830	MD: 0.62 (+/- 0.05)	1.1	2.2	10 (Na <sup>+</sup> →H <sup>+</sup> )	41–46	Demineralization
Lewatit MonoPlus® S 108 H	Styrene/DVB gel	H <sup>+</sup>	790	MD: 0.65 (+/- 0.05)	1.1	2.0	-10 (H <sup>+</sup> →Na <sup>+</sup> )	47–53	Demineralization
Lewatit MonoPlus® S 108 KR	Styrene/DVB gel	H <sup>+</sup>	790	MD: 0.65 (+/- 0.05)	1.1	2.0	-10 (H <sup>+</sup> →Na <sup>+</sup> )	47–53	Nuclear grade cation exchanger for decontamination
Lewatit MonoPlus® SP 112	Styrene/DVB macroporous	Na <sup>+</sup>	750	MD: 0.65 (+/- 0.05)	1.1	1.7	8 (Na <sup>+</sup> →H <sup>+</sup> )	51–56	Demineralization
Lewatit MonoPlus® SP 112 H	Styrene/DVB macroporous	H <sup>+</sup>	720	MD: 0.67 (+/- 0.05)	1.1	1.6	-8 (H <sup>+</sup> →Na <sup>+</sup> )	56–60	Demineralization
Lewatit MonoPlus® SP 112 KR	Styrene/DVB macroporous	H <sup>+</sup>	720	MD: 0.67 (+/- 0.05)	1.1	1.7	-8 (H <sup>+</sup> →Na <sup>+</sup> )	52–61	Demineralization
Lewatit® S 1567	Styrene/DVB gel	Na <sup>+</sup>	810	MD: 0.60 (+/- 0.05)	1.1	1.8	12 (Na <sup>+</sup> →H <sup>+</sup> )	44–50	Water treatment, softening, prod. without solvents, food-grade
Lewatit MonoPlus® S 200 H	Styrene/DVB gel	H <sup>+</sup>	790	MD: 0.60 (+/- 0.05)	1.1	2.1	-6 (H <sup>+</sup> →Na <sup>+</sup> )	45–50	Higher cross-linked cation for condensate polishing
Lewatit MonoPlus® S 215 H	Styrene/DVB gel	H <sup>+</sup>	800	MD: 0.60 (+/- 0.05)	1.1	2.4	-6 (H <sup>+</sup> →Na <sup>+</sup> )	40–45	Higher cross-linked cation for condensate polishing
Lewatit® MDS 200 H	Styrene/DVB gel	H <sup>+</sup>	790	MD: 0.33 (+/- 0.05)	1.1	2.3	-6 (H <sup>+</sup> →Na <sup>+</sup> )	45–50	Higher cross-linked cation with a small diameter
Lewatit MonoPlus® S 200 KR	Styrene/DVB gel	H <sup>+</sup>	790	MD: 0.60 (+/- 0.05)	1.1	2.1	-6 (H <sup>+</sup> →Na <sup>+</sup> )	45–50	Nuclear grade cation for condensate polishing and decontamination
Lewatit MonoPlus® S 215 KR	Styrene/DVB gel	H <sup>+</sup>	800	MD: 0.60 (+/- 0.05)	1.1	2.4	-6 (H <sup>+</sup> →Na <sup>+</sup> )	35–45	Nuclear grade cation for condensate polishing and decontamination
Lewatit® S 100 G1	Styrene/DVB gel	H <sup>+</sup>	760	HD: 0.315–1.25	1.6	1.8	-8 (H <sup>+</sup> →Na <sup>+</sup> )	50–55	Acid conductivity
Lewatit® UltraPure 1213 MD	Styrene/DVB gel	H <sup>+</sup>	790	MD: 0.60 (+/- 0.05)	1.1	2.1	-6 (H <sup>+</sup> →Na <sup>+</sup> )	45–50	Uniform particle size high purity cationic exchanger
Lewatit® UltraPure 1216 MD	Styrene/DVB gel	H <sup>+</sup>	790	MD: 0.55 (+/- 0.05)	1.1	2.1	-8 (H <sup>+</sup> →Na <sup>+</sup> )	45–50	Uniform particle size high purity cationic exchanger

## WATER TREATMENT

### Weak Base Anion Exchange Resins

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® A 365	Polyacrylate macroporous	FB	720	HD: 0.4–1.6	1.8	3.4	16 (FB→Cl <sup>-</sup> )	43–54	Food-grade anion exchanger for demineralization
Lewatit® A 8072	Polyacrylate gel	FB	740	HD: 0.50–0.75 (effective)	1.8	1.6	25 (FB→Cl <sup>-</sup> )	53–61	Water treatment, demineralization
Lewatit® A 8072+	Polyacrylate gel	FB	710	HD: 0.50–0.74 (effective)	1.6	1.4	12 (FB→Cl <sup>-</sup> )	56–64	Water treatment, demineralization, reduced rinse water demand
Lewatit® MP 62	Styrene/DVB macroporous	FB	620	HD: 0.47 (+/- 0.06, effective)	1.8	1.7	45 (FB→Cl <sup>-</sup> )	50–55	Water treatment, demineralization

## WATER TREATMENT

### Medium Base Anion Exchange Resins

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® A 8073	Polyacrylate gel	FB/Cl <sup>-</sup>	710	HD: 0.50–0.75 (effective size)	1.8	1.25	Total: 14 (del. form →OH <sup>-</sup> )	56–64	Water treatment, demineralization
Lewatit MonoPlus® MP 64	Styrene/DVB macroporous	FB/Cl <sup>-</sup>	620	MD: 0.59 (+/- 0.05)	1.1	1.3	Total: 24 (del. form →OH <sup>-</sup> )	61–66	Water treatment, demineralization
Lewatit MonoPlus® MP 68	Styrene/DVB macroporous	FB/Cl <sup>-</sup>	620	MD: 0.55 (+/- 0.05)	1.1	1.3	Total: 24 (del. form →OH <sup>-</sup> )	54–60	Water treatment, demineralization
Lewatit® UltraPure 1231 MD	Styrene/DVB macroporous	FB/Cl <sup>-</sup>	620	MD: 0.59 (+/- 0.05)	1.1	1.4	Total: 24 (del. form →OH <sup>-</sup> )	61–66	Water treatment, demineralization

## WATER TREATMENT

### Strong Base Anion Exchange Resins – Type I

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® A 8071	Polyacrylate gel	Cl <sup>-</sup>	740	HD: 0.50–0.75 (effective size)	1.8	1.35	25 (Cl <sup>-</sup> →OH <sup>-</sup> )	48–55	Demineralization, absorption of TOC
Lewatit® ASB 1	Styrene/DVB gel	Cl <sup>-</sup>	700	HD: 0.3–1.25	1.6	1.4	20 (Cl <sup>-</sup> →OH <sup>-</sup> )	43–48	Demineralization
Lewatit® ASB 1 P	Styrene/DVB gel	Cl <sup>-</sup>	720	HD: 0.44–0.56 (effective size)	1.6	1.3	20 (Cl <sup>-</sup> →OH <sup>-</sup> )	49–56	Demineralization
Lewatit MonoPlus® M 500	Styrene/DVB gel	Cl <sup>-</sup>	690	MD: 0.62 (+/- 0.05)	1.1	1.3	20 (Cl <sup>-</sup> →OH <sup>-</sup> )	48–55	Demineralization
Lewatit MonoPlus® M 508	Styrene/DVB gel	Cl <sup>-</sup>	670	MD: 0.60 (+/- 0.05)	1.1	1.3	20 (Cl <sup>-</sup> →OH <sup>-</sup> )	51–58	Demineralization
Lewatit MonoPlus® M 500 MB	Styrene/DVB gel	Cl <sup>-</sup>	690	MD: 0.62 (+/- 0.05)	1.1	1.3	22 (Cl <sup>-</sup> →OH <sup>-</sup> )	48–55	Demineralization, for mixed bed application
Lewatit MonoPlus® M 500 OH	Styrene/DVB gel	OH <sup>-</sup>	670	MD: 0.64 (+/- 0.05)	1.1	1.1	-18 (OH <sup>-</sup> →Cl <sup>-</sup> )	57–62	Demineralization and mixed bed application



## WATER TREATMENT

### Strong Base Anion Exchange Resins – Type I

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit MonoPlus® M 500 KR	Styrene/DVB gel	OH <sup>-</sup>	670	MD: 0.64 (+/- 0.05)	1.1	1.1	-18 (OH <sup>-</sup> →Cl <sup>-</sup> )	56–62	For rad waste removal, demineralization, and decontamination
Lewatit MonoPlus® M 800	Styrene/DVB gel	Cl <sup>-</sup>	670	MD: 0.59 (+/- 0.05)	1.1	1.4	18 (Cl <sup>-</sup> →OH <sup>-</sup> )	43–48	Demineralization, ideal for mixed bed applications
Lewatit MonoPlus® M 800 OH	Styrene/DVB gel	OH <sup>-</sup>	680	MD: 0.64 (+/- 0.05)	1.1	1.2	-18 (OH <sup>-</sup> →Cl <sup>-</sup> )	57–62	Demineralization
Lewatit MonoPlus® M 800 KR	Styrene/DVB gel	OH <sup>-</sup>	670	MD: 0.64 (+/- 0.05)	1.1	1.2	-18 (OH <sup>-</sup> →Cl <sup>-</sup> )	56–63	Low chloride content, for rad waste removal, demineralization, and decontamination
Lewatit MonoPlus® M 800 KRI	Styrene/DVB gel	OH <sup>-</sup>	680	MD: 0.64 (+/- 0.05)	1.1	1.2	-18 (OH <sup>-</sup> →Cl <sup>-</sup> )	56–63	Ultralow chloride and sulfate content, for rad waste removal, demineralization, and decontamination
Lewatit MonoPlus® MP 500	Styrene/DVB macroporous	Cl <sup>-</sup>	640	MD: 0.62 (+/- 0.05)	1.1	1.1	22 (Cl <sup>-</sup> →OH <sup>-</sup> )	60–65	Demineralization, absorption of TOC
Lewatit MonoPlus® MP 500 OH	Styrene/DVB macroporous	OH <sup>-</sup>	620	MD: 0.65 (+/- 0.05)	1.1	0.9	-20 (OH <sup>-</sup> →Cl <sup>-</sup> )	70–77	Demineralization, absorption of TOC
Lewatit MonoPlus® MP 800	Styrene/DVB macroporous	Cl <sup>-</sup>	620	MD: 0.62 (+/- 0.05)	1.1	1.0	20 (Cl <sup>-</sup> →OH <sup>-</sup> )	63–68	Demineralization, absorption of TOC
Lewatit MonoPlus® MP 800 OH	Styrene/DVB macroporous	OH <sup>-</sup>	650	MD: 0.65 (+/- 0.05)	1.1	0.8	-20 (OH <sup>-</sup> →Cl <sup>-</sup> )	70–76	Water treatment, demineralization, absorption of TOC
Lewatit MonoPlus® MP 800 KR	Styrene/DVB macroporous	OH <sup>-</sup>	680	MD: 0.65 (+/- 0.05)	1.1	0.8	-20 (OH <sup>-</sup> →Cl <sup>-</sup> )	60–68	Water treatment, demineralization, absorption of TOC
Lewatit® UltraPure 1241 MD	Styrene/DVB gel	Cl <sup>-</sup>	690	MD: 0.62 (+/- 0.05)	1.1	1.3	22 (Cl <sup>-</sup> →OH <sup>-</sup> )	48–55	Ultrapure water
Lewatit® UltraPure 1243 MD	Styrene/DVB gel	OH <sup>-</sup>	650	MD: 0.64 (+/- 0.06)	1.1	1.1	-22 (OH <sup>-</sup> →Cl <sup>-</sup> )	56–66	Ultrapure water
Lewatit® UltraPure 1261 MD	Styrene/DVB macroporous	Cl <sup>-</sup>	640	MD: 0.62 (+/- 0.05)	1.1	1.1	22 (Cl <sup>-</sup> →OH <sup>-</sup> )	60–65	Ultrapure water

## WATER TREATMENT

### Strong Base Anion Exchange Resins – Type II

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit MonoPlus® M 600	Styrene/DVB gel	Cl <sup>-</sup>	680	MD: 0.62 (+/- 0.05)	1.1	1.3	16 (Cl <sup>-</sup> →OH <sup>-</sup> )	45–50	Demineralization
Lewatit MonoPlus® MP 600	Styrene/DVB macroporous	Cl <sup>-</sup>	630	MD: 0.60 (+/- 0.05)	1.1	1.1	12 (Cl <sup>-</sup> →OH <sup>-</sup> )	55–60	Demineralization, absorption of TOC
Lewatit® ASB 2	Styrene/DVB gel	Cl <sup>-</sup>	700	HD: 0.3–1.25	1.6	1.4	20 (Cl <sup>-</sup> →OH <sup>-</sup> )	38–45	Demineralization, for waters with a low silica concentration

## WATER TREATMENT

### Mixed Bed: Strong Acidic Cation Exchange Resins/Strong Base Anion Exchange Resins

Product	Product Matrix	Ionic Form	Shipping Weight (g/l) +/- 5%	Bead Size (mm): Monodisperse (MD, mean value) Heterodisperse: (HD, share > 90%)	Uniformity Coefficient max.	Total Capacity (eq/l) min.	Volume Change (%) max.	Water Retention (%)	Applications
Lewatit® NM 60	Styrene/DVB gel	H <sup>+</sup> /OH <sup>-</sup>	690	HD: 0.40–0.65 (effective size)	1.8	0.55**	-15 (H <sup>+</sup> /OH <sup>-</sup> → Ca <sup>2+</sup> , Mg <sup>2+</sup> , SO <sub>4</sub> <sup>2-</sup> , Cl <sup>-</sup> )	50–60	Production of very pure water
Lewatit® NM 60 SG	Styrene/DVB gel	H <sup>+</sup> /OH <sup>-</sup>	690	HD: 0.40–0.65 (effective size)	1.8	0.55**	-15 (H <sup>+</sup> /OH <sup>-</sup> → Ca <sup>2+</sup> , Mg <sup>2+</sup> , SO <sub>4</sub> <sup>2-</sup> , Cl <sup>-</sup> )	50–60	Production of very pure water for the semiconductor industry
Lewatit® NM 91	Styrene/DVB gel	H <sup>+</sup> /OH <sup>-</sup>	740	HD: 0.315–1.25	1.9	0.30**	-15 (H <sup>+</sup> /OH <sup>-</sup> → Ca <sup>2+</sup> , Mg <sup>2+</sup> , SO <sub>4</sub> <sup>2-</sup> , Cl <sup>-</sup> )	50–60	Deminerlizing water in cartridges, cleaning of sewage water, electro erosion
Lewatit® SM 600 KR Cl-free	Styrene/DVB gel	H <sup>+</sup> /OH <sup>-</sup>	700	MD: 0.65 +/- 0.05 A 0.64 +/- 0.05 C	1.1	2.0 C/ 1.1 A	-15 (H <sup>+</sup> /OH <sup>-</sup> → Ca <sup>2+</sup> , Mg <sup>2+</sup> , SO <sub>4</sub> <sup>2-</sup> , Cl <sup>-</sup> )	47–62	Deminerlization, decontamination and elimination of rad waste
Lewatit MonoPlus® SM 1000 KR	Styrene/DVB gel	H <sup>+</sup> /OH <sup>-</sup>	720	MD: 0.64 +/- 0.05 A 0.60 +/- 0.05 C	1.1 C/ 1.1 A	2.1 C/ 1.2 A	-14 (H <sup>+</sup> /OH <sup>-</sup> → Ca <sup>2+</sup> , Mg <sup>2+</sup> , SO <sub>4</sub> <sup>2-</sup> , Cl <sup>-</sup> )	42–63	Deminerlization, decontamination, and elimination of rad waste
Lewatit MonoPlus® SM 1015 KR	Styrene/DVB gel	H <sup>+</sup> /OH <sup>-</sup>	720	MD: 0.65 +/- 0.05 A 0.60 +/- 0.05 C	1.1 C/ 1.1 A	2.4 C/ 1.2 A	-14 (H <sup>+</sup> /OH <sup>-</sup> → Ca <sup>2+</sup> , Mg <sup>2+</sup> , SO <sub>4</sub> <sup>2-</sup> , Cl <sup>-</sup> )	54–59	Deminerlization, decontamination, and elimination of rad waste
Lewatit MonoPlus® SMP 1000 KR	Styrene/DVB macroporous	H <sup>+</sup> /OH <sup>-</sup>	680	MD: 0.70 +/- 0.05 A 0.65 +/- 0.05 C	1.1 C/ 1.1 A	1.7 C/ 0.8 A	-14 (H <sup>+</sup> /OH <sup>-</sup> → Ca <sup>2+</sup> , Mg <sup>2+</sup> , SO <sub>4</sub> <sup>2-</sup> , Cl <sup>-</sup> )	52–68	Deminerlization, decontamination, and elimination of rad waste
Lewatit MonoPlus® SM 1000 KR <sup>7</sup> Li	Styrene/DVB gel	Li <sup>+</sup> /OH <sup>-</sup>	720	MD: 0.64 +/- 0.05 A 0.60 +/- 0.05 C	1.1 C/ 1.1 A	2.1 C/ 1.2 A	-14 (H <sup>+</sup> , Li <sup>+</sup> /OH <sup>-</sup> → Ca <sup>2+</sup> , Mg <sup>2+</sup> , SO <sub>4</sub> <sup>2-</sup> , Cl <sup>-</sup> )	45–63	Deminerlization, decontamination, and elimination of rad waste
Lewatit MonoPlus® SM 1015 KR <sup>7</sup> Li	Styrene/DVB gel	Li <sup>+</sup> /OH <sup>-</sup>	720	MD: 0.64 +/- 0.05 A 0.60 +/- 0.05 C	1.1 C/ 1.1 A	2.4 C/ 1.2 A	-14 (H <sup>+</sup> , Li <sup>+</sup> /OH <sup>-</sup> → Ca <sup>2+</sup> , Mg <sup>2+</sup> , SO <sub>4</sub> <sup>2-</sup> , Cl <sup>-</sup> )	54–59	Deminerlization, decontamination, and elimination of rad waste
Lewatit® UltraPure 1292 MD	Styrene/DVB gel	H <sup>+</sup> /OH <sup>-</sup>	720	MD: 0.64 +/- 0.05 A 0.60 +/- 0.05 C	1.1 C/ 1.1 A	2.1 C/ 1.1 A	-15 (H <sup>+</sup> /OH <sup>-</sup> → Ca <sup>2+</sup> , Mg <sup>2+</sup> , SO <sub>4</sub> <sup>2-</sup> , Cl <sup>-</sup> )	45–62	Ultrapure water, very low TOC leaching
Lewatit® UltraPure 1294 MD	Styrene/DVB gel	H <sup>+</sup> /OH <sup>-</sup>	710	MD: 0.60 +/- 0.07 A 0.67 +/- 0.05 C	1.1 C/ 1.1 A	2.1 C/ 1.1 A	-15 (H <sup>+</sup> /OH <sup>-</sup> → Ca <sup>2+</sup> , Mg <sup>2+</sup> , SO <sub>4</sub> <sup>2-</sup> , Cl <sup>-</sup> )	SAC 45–50 SBA 59–65	Polishing to get 18+ megohm water (pharmaceutical and semiconductor industries)
Lewatit® UltraPure 1296 MD	Styrene/DVB gel	H <sup>+</sup> /OH <sup>-</sup>	710	MD: 0.67 +/- 0.07 A 0.50 +/- 0.05 C	1.1 C/ 1.1 A	2.0 C/ 1.1 A	-15 (H <sup>+</sup> /OH <sup>-</sup> → Ca <sup>2+</sup> , Mg <sup>2+</sup> , SO <sub>4</sub> <sup>2-</sup> , Cl <sup>-</sup> )	SAC 46–52 SBA 59–65	Polishing to get 18+ megohm water (pharmaceutical and semiconductor industries)
Lewatit® UltraPure 1297 MD	Styrene/DVB gel	H <sup>+</sup> /OH <sup>-</sup>	720	MD: 0.64 +/- 0.02 A 0.35 +/- 0.02 C	1.1 C/ 1.1 A	2.1 C/ 1.1 A	-14 (H <sup>+</sup> /OH <sup>-</sup> → Ca <sup>2+</sup> , Mg <sup>2+</sup> , SO <sub>4</sub> <sup>2-</sup> , Cl <sup>-</sup> )	SAC 47–53 SBA 60–65	Polishing to get 18+ megohm water (pharmaceutical and semiconductor industries), less separable

\*\* Operational capacity, end point 0.02 MOhm\* cm

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