

GROUP/SEGMENT	APPLICATION	PRODUCTS
WATER		
Industrial water	Condensate polishing of industrial water	MonoPlus M 500 OH, MonoPlus M 800, MonoPlus MP 500, MonoPlus S 200 KR, MonoPlus SP 112 H
Industrial water	Condensate softening	MonoPlus S 100, MonoPlus SP 112
Industrial water	Dealkalization of industrial water	CNP 80, CNP 80 WS
Industrial water	Demineralization of industrial water	NM-60, NM-91, CNP 80, CNP 80 WS, MonoPlus M 500, MonoPlus M 500 OH, MonoPlus M 600, MonoPlus M 800, MonoPlus MP 500, MonoPlus MP 64, MonoPlus S 100, MonoPlus S 100 H, MonoPlus S 200 KR, MonoPlus SP 112, MonoPlus SP 112 H, MP 600 WS, MP 62 WS, S 6268, VP OC 1071
Industrial water	Highly regenerated SAC for conductivity measuring in industrial water applications	VP OC 1072, VP OC 1073
Industrial water	Inert material	S 100 G1
Industrial water	Mixed bed for industrial water applications / Polishing	IN 42
Industrial water	Brackish water softening	NM-60, MonoPlus M 500 OH, MonoPlus M 800, MonoPlus MP 500, MonoPlus S 100 H, MonoPlus S 200 KR, MonoPlus SP 112 H
Industrial water	Pulp & paper	CNP 80, CNP 80 WS
Industrial water	Ready-to-use mixed beds	S 6268
Industrial water	Removal of organic constituents from industrial water	NM-60, NM-91, SM 1000 KR, SM 600 KR CL-free, UltraPure 1292, UltraPure 1294 MD
Industrial water	Softening of industrial water	MonoPlus MP 64, MP 62, S 6268, S 6328 A
Potable water	Dealkalization of potable water	MonoPlus S 100, S 1467
Potable water	Heavy metal removal in potable water	CNP LF, S 8227
Potable water	Removal of nitrate from potable water	TP 207
Potable water	Softening in dishwashing systems	SR 7, MonoPlus M 600, MP 600 WS
Potable water	Industrial softening with / through cartridges	S 1468 F
Potable water	Softening of potable water	S 1468 F
Potable water	Softening of potable water / Polishing	S 1428, S 1467, S 1468, S 2528, S 2568
Ultra-pure water	Demineralization of ultra-pure water	UltraPure 1213 MD, UltraPure 1221 MD, UltraPure 1231 MD, UltraPure 1241 MD, UltraPure 1243 MD, UltraPure 1261 MD, UltraPure 1294 MD
Ultra-pure water	Polishing of ultra-pure water	UltraPure 1213 MD, UltraPure 1243 MD, UltraPure 1292, UltraPure 1294 MD
Power industry	Condensate polishing in the power industry	MonoPlus M 500 KR, MonoPlus M 800, MonoPlus M 800 KR, MonoPlus MP 500, MonoPlus MP 500 KR, MonoPlus S 200 KR, MonoPlus SP 112, MonoPlus SP 112 H
Power industry	Dealkalization in the power industry	CNP 80 WS
Power industry	Demineralization in the power industry	CNP 80, CNP 80 WS, MonoPlus M 500, MonoPlus M 600, MonoPlus M 800, MonoPlus M 800, MonoPlus MP 500, MonoPlus MP 64, MonoPlus S 100, MonoPlus S 100 H, MonoPlus S 200 KR, MonoPlus SP 112, MonoPlus SP 112 H, MP 600 WS, VP OC 1072, VP OC 1073
Power industry	Highly regenerated SAC for conductivity measuring	S 100 G1
Power industry	Mixed bed in the power industry	NM-60, MonoPlus M 500 KR, MonoPlus M 800, MonoPlus MP 500, MonoPlus S 100, MonoPlus S 100 H, MonoPlus S 200 KR, MonoPlus SP 112, MonoPlus SP 112 H, SM 600 KR CL-free
Power industry	Polishing in the power industry	MonoPlus M 800, MonoPlus MP 500, MonoPlus S 100, MonoPlus S 100 H, MonoPlus S 200 KR, MonoPlus SP 112, MonoPlus SP 112 H, SM 600 KR CL-free
Power industry	Removal of organic constituents in the power industry	MonoPlus MP 64, S 6268
Power industry	Softening in the power industry	MonoPlus S 100, S 1467
Nuclear	Make-up water treatment - Demineralization	MonoPlus M 500 KR, MonoPlus M 800 KR, MonoPlus MP 500 KR, MonoPlus S 100 KR, MonoPlus SP 112 KR, S 100 KR/H CL-free, SM 1000 KR, SM 600 KR CL-free
Nuclear	Primary circuit - Conditioning of leakage water	MonoPlus M 500 KR, MonoPlus M 800 KR, MonoPlus MP 500 KR, MonoPlus S 100 KR, MonoPlus S 200 KR, MonoPlus SP 112 KR, S 100 KR/H CL-free, SM 1000 KR, SM 600 KR CL-free
Nuclear	Primary circuit - Fuel element storage pool	MonoPlus M 500 KR, MonoPlus M 800 KR, MonoPlus MP 500 KR, MonoPlus S 100 KR, MonoPlus S 200 KR, MonoPlus SP 112 KR, S 100 KR/H CL-free, SM 1000 KR, SM 600 KR CL-free
Nuclear	Primary circuit - Primary coolant treatment	MonoPlus M 500 KR, MonoPlus M 800 KR, MonoPlus MP 500 KR, MonoPlus S 100 KR, MonoPlus S 200 KR, MonoPlus SP 112 KR, S 100 KR/H CL-free, SM 1000 KR, SM 600 KR CL-free
Nuclear	Primary circuit - Radioactive wastewater treatment	MonoPlus M 500 KR, MonoPlus M 800 KR, MonoPlus MP 500 KR, MonoPlus S 100 KR, MonoPlus S 200 KR, MonoPlus SP 112 KR, S 100 KR/H CL-free, SM 1000 KR, SM 600 KR CL-free
Nuclear	Primary circuit - Steam generator blow-down	MonoPlus M 500 KR, MonoPlus M 800 KR, MonoPlus MP 500 KR, MonoPlus S 100 KR, MonoPlus S 200 KR, MonoPlus SP 112 KR, S 100 KR/H CL-free, SM 1000 KR, SM 600 KR CL-free
Nuclear	Primary circuit - Vapor treatment	MonoPlus M 500 KR, MonoPlus M 800 KR, MonoPlus MP 500 KR, MonoPlus S 100 KR, MonoPlus S 200 KR, MonoPlus SP 112 KR, S 100 KR/H CL-free, SM 1000 KR, SM 600 KR CL-free
Nuclear	Secondary circuit - Condensate treatment	MonoPlus M 500 KR, MonoPlus M 800 KR, MonoPlus MP 500 KR, MonoPlus S 100 KR, MonoPlus S 200 KR, MonoPlus SP 112 KR, S 100 KR/H CL-free, SM 1000 KR, SM 600 KR CL-free
Nuclear	Secondary circuit - Cooling water treatment	MonoPlus M 800 KR, MonoPlus MP 500 KR, MonoPlus S 100 KR, MonoPlus S 200 KR, MonoPlus SP 112 KR, S 100 KR/H CL-free, SM 1000 KR, SM 600 KR CL-free
Nuclear	Secondary circuit - Generator coolant system	MonoPlus M 500 KR, MonoPlus M 800 KR, MonoPlus MP 500 KR, MonoPlus S 100 KR, MonoPlus S 200 KR, MonoPlus SP 112 KR, S 100 KR/H CL-free, SM 1000 KR, SM 600 KR CL-free
Nuclear	Secondary circuit - Hydrazine removal	K 3433
Nuclear	Secondary circuit - District heating system	K 6333, MonoPlus M 500 KR, MonoPlus M 800 KR, MonoPlus S 100 KR, MonoPlus S 200 KR
FOOD		
Sugar	Decolorization of sugar liquors	S 2328, S 5428, S 6268, S 6328 A, S 6368, S 6368 Sulfate, S 7768, VP OC 1073, VP OC 1074
Sugar	Decolorization, demineralization and inversion of liquid sugar	S 2328, S 2528, S 2568, S 2568 H, S 4328, S 4528, S 6268, S 6328 A, S 6368, S 6368 Sulfate, S 8528
Sugar	Demineralization and decolorization of inulin solutions	MP 600 WS, S 1468, S 2528, S 2568, S 4228, S 4268, S 6368, S 6368 Sulfate
Sugar	Inversion of sucrose	S 2328
Sugar	Polishing of sugar liquors	S 7768
Sugar	Reduced molasses formation through exchange of alkali ions	K 2620, S 2528, S 2568
Sugar	Removal of organic constituents from sugar liquors	S 2328, S 6268, S 6328 A, S 6368, S 6368 Sulfate, VP OC 1074
Sugar	Reverse demineralization of sugar liquors	S 6368, S 8528
Sugar	Chromatographic separation of sugar	MDS 1368 Ca - 320, MDS 1368 Ca - 350, MDS 1368 Na - 320, MDS 1368 Na - 350, MDS 2368
Sugar	Softening of sugar thin juice	S 1428, S 1468, S 2528, S 2568, S 8528
Sugar	Sugar recovery from molasses	MDS 1368 Na - 320, MDS 1368 Na - 350
Sweeteners	Demineralization and decolorization of starch hydrolyzates / glucose, high fructoses, dextrose	MP 600 WS, S 1428, S 1468, S 2528, S 2568, S 2568 H, S 4228, S 4328, S 4528
Sweeteners	Demineralization and decolorization of starch hydrolyzates / dextrose	S 4428
Sweeteners	Demineralization of raw sorbitol solutions	S 2528, S 2568, S 3428, S 4328, S 4428, S 4528, S 6368, S 6368 Sulfate, S 8528
Sweeteners	Mixed-bed polishing of starch	MP 600 WS
Sweeteners	Polishing of sweeteners	S 7768
Sweeteners	Chromatographic separation of starch	MDS 1368 Ca - 320, MDS 1368 Ca - 350
Gelatine	Demineralization of gelatine solutions	MP 62 BG, S 1428, S 1468, S 2528, S 2568, S 4228, S 4268, S 4328, S 4528, S 6328 A, S 6368, S 6368 Sulfate, VP OC 1072
Glycerine	Demineralization and decolorization of glycerine	S 1428, S 1468, S 2528, S 2568, S 4228, S 4268, S 4328, S 4528, S 6328 A, S 6368, S 6368 Sulfate
Glycerine	Demineralization of raw glycerine by ion exclusion	MDS 1368 Na - 320, MDS 1368 Na - 350
Whey	Demineralization and decolorization of whey	S 1428, S 1468, S 2528, S 4528, S 6368, S 6368 Sulfate, VP OC 1072
Fruit juices	Demineralization and decolorization of fruit juice	S 1428, S 1468, S 2528, S 2568, S 4228, S 4268, S 4328, S 4528, S 6328 A, S 6368, S 6368 Sulfate
Fruit juices	Ion exclusion of must or fruit juice	MDS 1368 Na - 320, MDS 1368 Na - 350
Fruit juices	Polishing of fruit juices	S 7768
Food acids	Demineralization of citric acid	S 1428, S 1468, S 2528, S 2568, S 4428
Food acids	Demineralization of lactic acid	S 1428, S 1468, S 2528, S 2568, S 4428
Food acids	Separation of food acids	MDS 4368
Cartridge	Dealkalization of tap water	CNP C, CNP LF, CNP P, S 8227, S 8229
Lysin	Lysin separation	S 1468
Other foods	Softening of pectin solutions	S 1428, S 1468, S 2528, S 2568
CATALYSIS AND CHEMICAL PROCESSING		
Catalysis for synthesis	Acrylic & aliphatic esters	K 1221, K 1461, K2431, K 2621, K2629
Catalysis for synthesis	Bisphenol A	K 1131, K 1131 S, K 1221
Catalysis for synthesis	Isobutene dimerization	K 1481
Catalysis for synthesis	MTBE / TAME / ETBE	K 2620, K 2621, K 2624, K 2625, K 2629
Catalysis for synthesis	Phenol alkylates	K 2431, K 2620, K 2629, K 2649
Catalysis for synthesis	TBA	K 2431, K 2621
Catalysis specialties	Catalytic oxygen removal	K 3433, K 6363, K 7333
Catalysis specialties	Hydrogen peroxide decomposition	K 3433
Chlor-alkali electrolysis	Brine softening	MonoPlus TP 208, MonoPlus TP 260, TP 208, TP 260
Chlor-alkali electrolysis	Mercury removal from brine circuit	MonoPlus TP 214
Chlor-alkali electrolysis	Ni removal from brine	TP 207
Chlor-alkali electrolysis	Removal of aluminum and silicon from brine	TP 208
Chlor-alkali electrolysis	Removal of iodine from brine	S 6328 A
Process stream recycling	Chromic acid bath recycling	K 1461, MonoPlus SP 112
Process stream recycling	Copper removal from recycled CMP suspensions from PCB plants containing peroxide	MonoPlus TP 207, TP 207
Process stream recycling	Copper removal from nitric acid circuits	MonoPlus SP 112
Process stream recycling	Iron removal from chromating bath (containing Cr(III))	VP OC 1026

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CATALYSIS AND CHEMICAL PROCESSING		
Process stream recycling	Iron removal from zinc/nickel electrolyte circuits	TP 207
Process stream recycling	Mineral acid recycling, removal of salt by acid retardation	K 6262, VP OC 1071
Process stream recycling	Cleaning of printed circuit board and surface plating rinsewater	K 6362, MonoPlus MP 500, MonoPlus MP 64, MonoPlus SP 112
Process stream recycling	Removal of aluminum from phosphoric acid circuits	MonoPlus SP 112
Process stream recycling	Removal of aluminum from sulfuric and hydrochloric acid circuits	MonoPlus SP 112
Process stream recycling	Removal of hydrophobic organics (chlorinated hydrocarbons, AOX, ...) from electrolytes	VP OC 1064 MD PH, VP OC 1163
Process stream recycling	Removal of iron and/or zinc from hydrochloric acid circuits	K 6362
Process stream recycling	Removal of lead from battery acid circuits	MonoPlus SP 112
Process stream recycling	Removal of surfactants from recycled PCB and surface plating rinsewater	VP OC 1064 MD PH
Process stream recycling	Removal of titanium from recycled battery acid	MonoPlus SP 112
Process stream recycling	Zinc removal from recycled nickel electrolyte baths	VP OC 1026
Process stream recycling	Zirconia removal from surface plating rinsewater	MP 62
Purification of chemicals	Anion removal (in general)	K 6362
Purification of chemicals	Biodiesel purification	K 2629, MonoPlus SP 112
Purification of chemicals	Carbon monoxide adsorption	VP OC 1065
Purification of chemicals	Cation removal (in general)	K 1461
Purification of chemicals	Decolorization	K 7367, S 6328 A
Purification of chemicals	Mercaptan removal	K 6362
Purification of chemicals	Organic and mineral acids removal (in general)	MP 62
Purification of chemicals	Removal of organic constituents from hydrogen peroxide	VP OC 1064 MD PH, VP OC 1163
Purification of chemicals	Phenol purification	K 2431
Purification of chemicals	Aldehyde removal	VP OC 1065
Purification of chemicals	Aluminum removal from urea solution	TP 260
Purification of chemicals	Boron removal from concentrated magnesium chloride solution	MK 51
Purification of chemicals	Mercury removal from liquid cracker feedstocks (patent-protected)	MonoPlus TP 214
Purification of chemicals	Mercury removal from NaCl or HCl gained from acidic flue gas scrubbing water	MonoPlus TP 214
Purification of chemicals	Mercury removal from natural gas condensates	MonoPlus TP 214
Purification of chemicals	Petrochemical C4-C5 fraction desalination	K 1461
Purification of chemicals	Removal of chlorate from 40 % caustic soda	SR 7
Purification of chemicals	Removal of potassium hydroxide from polyether	K 2431
Purification of chemicals	Uranium removal from crude phosphoric acid	TP 260
Decentral metal recovery from process streams	Cobalt recovery from cobalt-doped mother liquor from polymer production	TP 207
Decentral metal recovery from process streams	Molybdenum recovery from flue gas scrubbing water	MP 62
Decentral metal recovery from process streams	Recovery of cyanide complexes from gold and silver	MP 62
Decentral metal recovery from process streams	Recovery of platinum and iridium from sulfuric acid solution as sulfate complex	K 6362
Decentral metal recovery from process streams	Recovery of precious metals Au, Ag, Pt, Pd, Ir, Os, Rh, Re from hydrochloric acid	K 6362
Decentral metal recovery from process streams	Recovery of precious metals Au, Ag, Pt, Pd, Ir, Os, Rh, Ru from acidic solutions	MonoPlus TP 214
Decentral metal recovery from process streams	Recovery of silver and mercury from spent analytical samples for COD detection	MonoPlus TP 214
Decentral metal recovery from process streams	Recovery of zinc from geothermal brine	K 6362
Decentral metal recovery from process streams	Recovery of chromic acid from surface plating rinsewater	MP 62
Decentral metal recovery from process streams	Rhodium catalyst recovery from mother liquor containing organic solvent	SR 4, MonoPlus TP 214
Decentral metal recovery from process streams	Selective copper recovery from rinsewater containing Ca, Zn, Fe, ..	TP 207
Decentral metal recovery from process streams	Selective copper recovery from NH ₄ Cl solutions containing Zn	TP 207
Decentral metal recovery from process streams	Silver recovery from photo laboratory rinsewater containing cyanide complexes	MonoPlus TP 214
Decentral metal recovery from process streams	Silver recovery from photo laboratory rinsewater containing S ₂ O ₃ complexes	MP 62
Groundwater treatment / Potable water	Removal of boron	MK 51
Groundwater treatment / Potable water	Removal of BTEX	VP OC 1064 MD PH
Groundwater treatment / Potable water	Removal of chromate	K 6362, MP 62
Groundwater treatment / Potable water	Removal of cyanide	K 6362
Groundwater treatment / Potable water	Removal of fluoride with aluminum-doped resin	TP 260
Groundwater treatment / Potable water	Removal of iron, manganese, zinc, cadmium, copper and chrome(III)	TP 207
Groundwater treatment / Potable water	Removal of mercury	MonoPlus TP 214
Groundwater treatment / Potable water	Removal of metal/cyanide complexes	K 6362, MP 62
Groundwater treatment / Potable water	Removal of nickel	TP 207
Groundwater treatment / Potable water	Removal of nitrate	SR 7, M 600
Groundwater treatment / Potable water	Removal of perchlorate	SR 7
Groundwater treatment / Potable water	Removal of pesticides	VP OC 1064 MD PH
Groundwater treatment / Potable water	Removal of phenol	VP OC 1064 MD PH
Groundwater treatment / Potable water	Removal of radium	K 1461
Groundwater treatment / Potable water	Removal of thallium and lead	TP 207
Groundwater treatment / Potable water	Removal of uranium	K 6362, S 6368, S 6368 Sulfate
Metal refining / Isolation	Gallium and germanium recovery from bauxite eluates	TP 207
Metal refining / Isolation	Indium recovery from zinc sulfate solutions	VP OC 1026
Metal refining / Isolation	Lanthanoid separation	K 1461
Metal refining / Isolation	Removal of antimony and bismuth from copper sulfate electrolyte solutions	TP 260
Metal refining / Isolation	Rhenium & molybdenum recovery from metal sulfate solutions	MP 62
Metal refining / Isolation	Separation of actinides from nuclear waste extracts	VP OC 1026
Metal refining / Isolation	Zinc recovery from metal sulfate solutions (in general)	VP OC 1026
Metal refining / Isolation	Zinc removal from cobalt sulfate solutions	VP OC 1026
Metal refining / Isolation	Zinc removal from nickel and/or cobalt chloride solutions	MonoPlus MP 64
Metal refining / Isolation	Zinc removal from nickel sulfate solutions	VP OC 1026
Mining / Metal extraction	Boron	MK 51
Mining / Metal extraction	Copper, nickel and cobalt	MonoPlus TP 207, MonoPlus TP 260, TP 207, TP 260
Mining / Metal extraction	Gold	K 6267, K 6362, K 6367
Mining / Metal extraction	Uranium	K 6267, K 6362, K 6367, K 7367
Mining / Metal extraction	Yttrium and scandium	MP 62 WS
Pharma / Biotechnology	Chromatographic separations / adsorptions	VP OC 1064 MD PH, VP OC 1163
Pharma / Biotechnology	Color removal	VP OC 1064 MD PH
Pharma / Biotechnology	Enzyme carrier	CNP 105, VP OC 1600
Pharma / Biotechnology	Peptide purification	MonoPlus SP 112
Wastewater treatment	Heavy metal (Cu, Ni, Co, Cr, Zn, Pb, Cd, ...) removal (in general)	TP 207
Wastewater treatment	Removal of chrome(III) sulfate complex from wastewater	MonoPlus MP 64
Wastewater treatment	Removal of Cr(III) from leather industry wastewater	TP 207
Wastewater treatment	Removal of fluoride from wastewater by aluminum-doped resin	TP 260
Wastewater treatment	Removal of heavy metals (Cu, Ni, Co, ...) from decontamination plant effluents	TP 207
Wastewater treatment	Removal of heavy metals (Cu, Ni, Co, ...) from landfill leachates	TP 207
Wastewater treatment	Removal of heavy metals (Cu, Ni, Co, ...) from mining industry wastewater	TP 207
Wastewater treatment	Removal of heavy metals (Cu, Ni, Co, Cr, Zn, Pb, Cd, ...) from electroplating wastewater	TP 207
Wastewater treatment	Removal of heavy metals (Cu, Ni, Co, Cr, Zn, Pb, Cd, ...) from flue gas scrubbing water	TP 207
Wastewater treatment	Removal of heavy metals (Cu, Ni, Co, Cr, Zn, Pb, Cd, ...) from surface plating wastewater	TP 207
Wastewater treatment	Removal of heavy metals (Ni, ...) from electropolishing wastewater	TP 207
Wastewater treatment	Removal of heavy metals from wastewater with low ionic strength and low calcium content	CNP 80
Wastewater treatment	Removal of hydrophobic organic constituents (solvents, BTEX, surfactants...)	VP OC 1064 MD PH
Wastewater treatment	Removal of mercury from battery production wastewater	TP 207
Wastewater treatment	Removal of mercury from chlor-alkali electrolysis wastewater	MonoPlus TP 214, MP 62
Wastewater treatment	Removal of mercury from flue gas scrubbing water	MonoPlus TP 214
Wastewater treatment	Removal of phenol from wastewater	VP OC 1064 MD PH
Wastewater treatment	Removal of radioactive isotopes from wastewater	K 1461, K 6362
Wastewater treatment	Removal of water-soluble organic dyestuffs from textile wastewater	MP 62
Wastewater treatment	Removal of zinc from kaolin production wastewater	TP 207
Wastewater treatment	Removal of Zn and Cu from viscose fabrication wastewater	TP 207
Hydroponics	Hydroponics	HD 50

