

ION EXCHANGE RESINS FOR WATER TREATMENT





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Welcome to Ionex Resins world of

Specialized in Ion Exchange Resins

lonex Resins[®] is an innovation-oriented, high-tech enterprise, specialized in Ion Exchange resins, adsorption and separation resins, equipment solutions and relevant technical services. The leading resin logistics in Germany, which provides a high level of transparency to its cus-tomers. We offer world-class water treatment products and keen on building long-term satis-faction and commitments with our customers. Ionex Resins[®] portfolio includes various product categories and different resin types which are broadly used in industries such as: Water and wastewater treatment, Food and Beverages, Plant Extraction, Pharmaceutical & Science, Bio-tech, as well as Civil & Industry water treatment.





POTABLE & GROUNDWATER

By Using Ionex Resins®

Potable water that is safe for human and animal consumption is essential to life. However, groundwater or surface water sources are facing increasing contamination around the world: diverse pollutants like heavy metals, perchlorate, PFOS, or impurities resulting from human activity that may be harmful to our health are more and more frequently encountered. Many water providers are forced to implement additional treatment or purification before distribution.

Ion exchange resins are particularly well suited for pump and treat applications especially for the removal of trace contaminants without altering the overall water chemistry of the water supply.

Ionex Resins® offers various ion exchange resins and adsorbents for selective removal of con-taminants from drinking water sources. We can provide dimensions for most ion exchange combinations and provide accurate project design based on the customer's feed water analy-sis.

In case of specific site requirements, we also provide a customized Ionex Resins[®] service to best adapt the resin to the customer's site conditions.





Ionex Cartridge/Water Softening Resins

To help to improve the taste and purity of drinking water, Ionex Resins® offers Ionex MWC983 series and Non-solvent HPC130NS, they are applicable for cartridge or water softening tasks.

Ionex MWC983 is a food-grade, polyacrylic macroporous weak acidic cation resin. It is charac-terized by its acrylic matrix and low swelling with a higher selectivity for divalent cations (Pb, Cd, Cu, Co, Ni, etc.). Due to the polyacrylic matrix, the resin has good resistance to attrition, besides it is very stable toward commonly used chemicals.

HPC130NS is a high purity strong acid cation resin. It is made without solvent which gives it a distinctive surface, it will highly improve the safety grade of drinking water, ensures that no harmful solvent leakage.

Product	Туре	Shipping form	Moisture %	Shipping Weight(kg/l)	Total Capacity (eq/I)	Particle Size Mesh (mm)
Ionex MWC983	Macro, Acrylic	H+	44-58	0.72-0.80	≥ 4.3	0.315-1.25
Ionex MWC983HC	Macro, Acrylic	H+	45-50	0.72-0.80	≥ 4.7	0.315-1.25
Ionex MWC983(H/Na)	Macro, Acrylic	H/Na+	44-58	0.72-0.80	≥ 4.2	0.40-1.60
Ionex MWC983(H/K)	Macro, Acrylic	H/K+	44-58	0.72-0.80	≥ 4.2	0.40-1.60
Ionex MWC983(Mg)	Macro, Acrylic	Mg	45-58	0.72-0.80	≥ 4.3	0.40-1.60
Ionex HPC 130NS	Gel ST	Na+	43-48	0.82	≥ 2.0	0.315-1.25





Ionex Selective Removal Resins

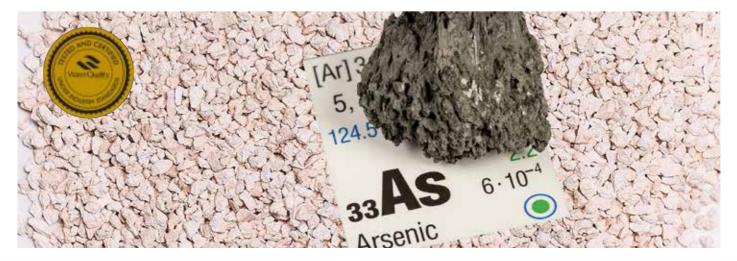
lonex Resins[®] dedicated to produce diversified products to satisfy customized requirements. The table below shows you how to choose the product for a given application.

Product	Туре	Application	Equivalent
Ionex ISC710	Iminodiacetic	Heavy metal removal from solutions	Lewatit TP207, Amberlite IRC748, Purolite S930
Ionex ISC720	Thiouronium	Heavy metal removal, Au, Pt, Pd, Hg, etc.	Purolite S920
Ionex ISC740	Thiol	Mercury removal	Purolite S924
Ionex ISC724	Thiouronium	Mercury removal, metal separation and recovery	Lewatit TP214
Ionex ISC750	Amino phosphonic	Purification of secondary brine in chlor-alkali plants	Lewatit TP260, Amberlite IRC747
Ionex ISC760	Amino phosphonic Aluminum-loaded	Fluoride removal	Exclusive Ionex



Ionex Arsenic Removal Adsorber

TITANSORB® is a revolutionary adsorbent based on titanium dioxide, for the removal of arsenic and heavy metals. It has the best arsenic removal capacity in the market: up to 60 g/Kg, offering the longest life span than any other adsorbents. In addition, it operates completely free of regeneration and the disposal of depleted material is not hazardous.





Boron Removal Adsorber

BoronTrapp is an adsorber filter material that is the purest magnesium oxide in the form of granules with a unique outer surface and structure. **BoronTrapp** is a porous, amorphous form of Magnesium (MgO), it is composed of a unique manufacturing process giving its uniformity and Macroscope pores. **BoronTrapp** have larger pores with a wide range of diameters for a wide range of applications. **BoronTrapp** is widely used for the removal of Boron, Barium, Carbon dioxide, Silica and Corrosion Prevention.



Perchlorate & PFAs Removal Adsorber

CATALYTIC CARBON-MG (CC-MG) is made of activated coconut shell carbon. **CC-MG** is a stable activated carbon adsorber with Zero Valent Iron (ZVI) activated with high MGO surface. CC-MG has extremely high adsorption capacity of fluorine containing compounds to treat PFAS – contaminated water and can be regenerated using **SOLAROXY-3C**. MG-Coated Activated Carbon (CC-MG) can remove PFAS, PFOS and PFOA up to 99%



Nitrate Removal Adsorber

NITROTRAPP is the world's first High Capacity Adsorber plus De-adsorber to selectively Trapp Nitrates. It is the only best available method of purifying any water containing Nitrates and pro-vides healthy bicarbonates in your water. Apart from higher capacity, the biggest advantage of NITROTRAPP is that there is no toxic or high saline waste during the deadsorption process. The water during the deadsorption process is enriched with valuable nitrate fertilizer, which can be used for gardening or agriculture purposes. This can be achieved only by NITROTRAPP, not by any other media, which are based on Ion Exchange or Reverse Osmosis"





IWT / GENERAL DI

Ionex Resins® for Deionization are classified into Ionex cation exchange resins and Ionex anion exchange resins, as well as Ionex mixed bed ion exchange resins.

The lonex cation exchange resin can exchange, thanks to their functional group cations out of the solution, and the lonex anion exchange resin can exchange anions. The lonex mixed bed is a physical mixture of both cation resin and an anion resin which can remove anions and cations in the water.

lonex Resins® in most applications can be regenerated to restore their ion exchange ability. This regeneration is accomplished through the application of a concentrated acidic or basic regen-eration solution which displaces the ions which were exchanged. Through regeneration, lonex Resins® can deliver consistent results over a long service life.

Ionex Resins® are widely used in different separation, purification, and decontamination processes. The most common examples are water softening, dealkalisation, demineralisation, as well as the removal of organics from water for many industrial uses (boilers, air conditioning, dilution, rinse etc.)

Industrial equipment using lonex Resins® are designed according to different principles and WATCH® can deliver the required resin types for all these technologies. Co-current and count-er-current designs do place different requirements on the particle size of the beads. For count-er-current application using nozzles to retain the ion exchange resins in the filter a special, coarser, particle size distribution has been developed by WATCH® with a bead size distribution starting at 0,4 mm instead of 0,315 mm it provides the characteristics required to protect the nozzles in use in the filter. This special Particle Size Distribution is available for most of our products as DA grade.





Ionex Cation Exchange Resins

Strong Acid Cation Resins

Product	Туре	Shipping form	Moisture %	Shipping Weight (kg/l)	Total Capacity (eq/l)	Particle size Mesh (mm)	Application	
Ionex SAC 110	Gel ST	Na+	56-63	0.78	≥ 1.5	16-50 (0.315-1.25)	Gel type, widely used in water treatment,	
Ionex SAC 120	Gel ST	Na+	45-50	0.80	≥ 1.9	16-50 (0.315-1.25)	like Water softening, deionization etc. in	
Ionex SAC 130	Gel ST	Na+	43-48	0.82	≥ 2.0	16-50 (0.315-1.25)	water and other solutions, very good	
Ionex SAC 140	Gel ST	Na+	38-44	0.85	≥ 2.3	16-50 (0.315-1.25)	resistance to osmotic and thermal shock.	
Ionex SAC 130NS	Gel ST	Na+	43-48	0.82	≥ 2.0	16-50 (0.315-1.25)	Non-solvent SAC	
Ionex SAC 130LD	Gel ST	Na+	43-48	0.82	≥ 2.0	16-50 (0.315-1.25)	SAC with very Low DCE (<50ppb)	
Ionex SAC 120H	Gel ST	H+	50-60	0.78	≥ 1.7	16-50 (0.315-1.25)	Caltura CAC III farma	
Ionex SAC 130H	Gel ST	H+	50-56	0.80	≥ 1.8	16-50 (0.315-1.25)	Gel type SAC, H+ form	
Ionex MPC 240	Macro ST	Na+	45-55	0.84	≥ 1.8	16-50 (0.315-1.25)	Macroporous type	
Ionex MPC 240H	Macro ST	H+	50-60	0.83	≥ 1.7	16-50 (0.315-1.25)	SAC, widely used in water treatment,	
Ionex MPC MPC 241	Macro ST	Na+	45-55	0.85	≥ 1.8	16-40 (0.45-1.25)	deionization etc. it has excellent performance on osmotic shock and regeneration efficiency.	
Ionex MPC 243	Macro ST	Na+	45-55	0.85	≥ 1.8	16-30 (0.63-1.25)		
Ionex MPC 210	Macro ST	Na+	40-50	0.84	≥ 2.0	16-50 (0.315-1.25)		
Ionex MPC 220	Macro ST	Na+	40-50	0.84	≥ 2.2	16-50 (0.315-1.25)		

Weak Acid Cation Resins

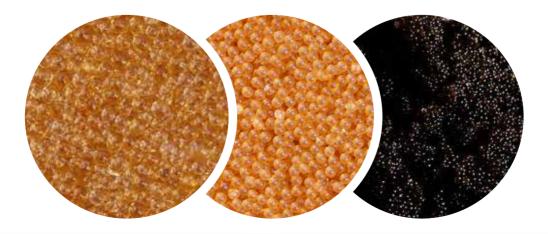
Product	Туре	Shipping form	Moisture %	Shipping Weight (kg/l)	Total Capacity (eq/l)	Particle size Mesh (mm)	Application
Ionex MPC 270	Macro, Acrylic	H+	45-55	0.74	≥ 2.8	16-50 (0.315-1.25)	Macroporous WAC, easier for cleaning and suitable for drinking water.
Ionex MPC 290	Macro, Acrylic	H+	50-60	0.74	≥ 4.2	16-50 (0.315-1.25)	Suitable for high capacity, Acrylate base, widely used in softening, waste water treatment etc.



Ionex Anion Exchange Resins

Strong Base Anion Resins

Product	Туре	Shipping form	Moisture %	Shipping Weight (kg/l)	Total Capacity (eq/l)	Particle size Mesh (mm)	Application	
Ionex SBA 400	Gel ST	CI-	45-60	0.69	≥ 1.2	16-50 (0.315-1.25)	Type 1, SBA gel type ion exchange resins, excellent on operation capacity and long	
Ionex SBA 470	Gel ST	CI-	42-48	0.70	≥ 1.4	16-50 (0.315-1.25)	service time, good silica removal, used for condensate deionization and mixed bed.	
Ionex SBA 420	Gel ST	CI-	40-45	0.70	≥ 1.25	16-50 (0.315-1.25)	Gel type 2 SBA, good anti fouling and regeneration efficiency	
Ionex MPA 900	Macro ST	CI-	50-60	0.69	≥ 1.15	16-50 (0.315-1.25)	Type 1, macroporous SBA, outstanding mechanical resistance to strong osmotic	
Ionex MPA 900MB	Macro ST	CI-	50-60	0.69	≥ 1.15	18-40 (0.4-0.9)	shock and high regeneration efficiency, used in demineralization.	
Ionex MPA 920	Macro ST	CI-	42-52	0.69	≥ 1.2	16-50 (0.315-1.25)	Macroporous type 2, SBA, higher capacity	
Ionex MPA 958	Macro, Acrylic	CI-	65-75	0.65-0.75	≥ 0.85	16-50 (0.315-1.25)	Macroporous type 2, remove of large organic molecules	
Ionex MPA 970	x MPA 970 Macro ST C		65-75	0.60-0.70	≥ 0.8	16-50 (0.315-1.25)	Macroporous type 1, remove organic substances from water or waste water solutions, like tannins, humid acids etc.	
Ionex MPA 870	Macro ST	CI-	68-82	0.60-0.70	≥ 0.65	16-50 (0.315-1.25)	Macroporous type 1, remove anions, organic acid, color etc. from water, juice or sugar syrup	
Ionex LXA 67	Gel, Acrylic	CI-	56-62	0.70-0.75	≥ 1.5	0.315-1.25	Demineralization in water	
Ionex LXA 6701	Gel, Acrylic	CI-	55-65	0.70-0.75	≥ 1.2	0.40-1.25	with high concentration of organic substance.	





Weak Base Anion Resins

Product	Туре	Shipping form	Moisture %	Shipping Weight (kg/l)	Total Capacity (eq/l)	Particle size Mesh (mm)	Application
Ionex MPA 940	Macro ST	Free base	48-58	0.70	≥ 1.5	0.315-1.25	Macroporous type, demineralization, decolor etc, outstanding performance on regeneration efficiency
Ionex MPA 943	Macro ST	Free base	50-60	0.70	≥ 1.6	0.315-1.25	Macroporous type, better strength and performance in demineralization and decoloration
Ionex MPA 939	Macro, Acrylic	Free base	45-55	0.70	≥ 2.8	0.315-1.25	Removal of organic acids and mineral substances

Ionex Mixed Bed Resins

lonex mixed bed are a demineralization system directly out of the system. To achieve this Mixed bed contain a mixture of regenerated lonex cation and lonex anion, ion exchange resin all in one.

Ionex Mixed beds are widely used to directly generate high quality demineralized water in remote application like laboratory or workshops. Furthermore they are used in the water purification industry for polishing water previously demineralized with an Ion Exchange or Reverse Osmo-sis system to achieve high purity demineralized water for industrial processes requiring it.

In the ready to use Ionex Mixed beds from **Watch Water**® the mixture of strong acid cation resins in H+ form and strong base anion resins in OH- form involves a precise ratio of both com-ponents designed to adjust the characteristics of the Ionex Mixed bed to the requirement of the application. Our base product IMB18 involves a volume ratio of 1:1. For application requir-ing high capacity we provide Mixed beds with a volume ratio of Cationics to Anionics of 1:1,5 IMB28 or 1:2 with IMB38.

Furthermore we can provide for price conscious customers Mixed beds from the IMBx0 series with SBA400 as anionics component offering an attractive entry level product.

To facilitate operation we can provide also *IND grade Mixed beds with color indicator for the lonex cationics or lonex anionics resin allowing the user to detect exhaustion of the mixed bed. Our color indicators will have the following colours depending on their iconic form:

Ionex Cationic Resin: Regenerated (-H+) green changing to rose red when exhausted.

Ionex Anionic Resin: Regenerated (-OH-) blue changing to faint yellow when exhausted.



Ionex Mixed Bed Resins

Product	Туре	Shipping form Shipping Weight Capacity (kg/l) Particle size Mesh (mm)		Application		
Ionex IMB 18	Cation/Anion Volume ratio 1:1	99%H+ 95% OH-	0.70-0.74	1.90/1.10	16-50 (0.315-1.25)	Higher capacity, used in EDM market and semiconductor industry
Ionex IMB 28	Cation/Anion Volume ratio 1:1.5			1.90/1.10	16-50 (0.315-1.25)	Ready to use Ionex mixed bed, polishing for IX and RO plant
Ionex IMB 38	Cation/Anion Volume ratio 1:2	99%H+ 95% OH-	0.70-0.74	1.90/1.10	16-50 (0.315-1.25)	

Product	Туре	Shipping form	Shipping Weight (kg/l)	Total Capacity (eq/l)	Particle size Mesh (mm)	Application
Ionex IMB 10	Cation/Anion Volume ratio 1:1	99%H+ 90% OH-	0.65-0.75	1.80/1.00	16-50 (0.315-1.25)	Used in EDM market and semiconductor industry
Ionex IMB 20	Cation/Anion Volume ratio 1:1.5	99%H+ 90% OH-	0.70-0.74	1.80/1.00	16-50 (0.315-1.25)	Ready to use Ionex mixed bed, polishing for IX and RO plant, with
Ionex IMB 30	Cation/Anion Volume ratio 1:2	99%H+ 90% OH-	0.68-0.73	1.80/1.00	16-50 (0.315-1.25)	anionics SBA400 as component

^{*}IND: To naming the grade with indicators, eg. IMB 10 IND, IMB 20 IND, IMB 30 IND, IMB 18 IND etc.





POWER

Ionex Monojet Resins

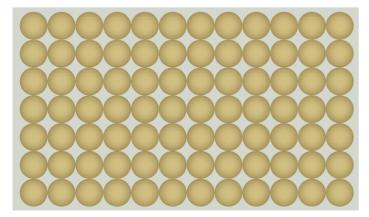
The lonex Monojet product category is ion-exchange resins manufactured with a proprietary jetting technology offering a very good uniformity of partical size. Thanks to their uniform bead size the lonex Monojet products have excellent hydraulic and dynamic performances, with a faster exchange rate, improving water quality and treatment capacity. At the same time, the operating velocity and pressure drop of the system can be improved by using the lonex Monojet products.

Ionex Strong Acid Cation Monojet Resins

Product	Туре	Shipping form	Moisture %	Shipping Weight (kg/l)		Particle size Mesh (mm)	Uniformity Coefficient	Application
Ionex Monojet	Gel	Na+	42-48	0.75-0.85	≥ 2.00	0.60±0.05	≤ 1.1	A uniform particle size,
JSC3100		H+	50-55	0.72-0.82	≥ 1.80	0.60±0.05	≤ 1.1	widely used in industrial demineralization
Ionex Monojet	Gel	Na+	39-45	0.78-0.88	≥ 2.20	0.65±0.05	≤ 1.1	
JSC3200		H+	45-52	0.74-0.84	≥ 2.00	0.65±0.05	≤ 1.1	
Ionex Monojet JSC3300	Gel	H+	35-43	0.80-0.84	≥ 2.35	0.60±0.05	≤ 1.1	A uniform particle size, widely used in condensate polishing in PWR nuclear or high-pressure fossil electric generating plants

Ionex Strong Base Anion Monojet Resins

P	roduct	Туре	Shipping form	Moisture %	Shipping Weight (kg/l)	Total Capacity (eq/l)	Particle size Mesh (mm)	Uniformity Coefficient		
- 1	onex Monojet	Gel	CI-	49-55	0.66-0.75	≥ 1.30	0.65±0.05		Designed specifically for use industrial demineralization	
J	SA6400		OH-	60-66	0.64-0.70	≥ 1.10	0.73±0.05	≤ 1.1		
	onex Monojet SA6700	Gel	CI-	42-49	0.68-0.75	≥ 1.40	0.55±0.05	≥ 1.1	Designed specifically for use in industrial demineralization	
			ОН-	55-65	0.66-0.70	≥ 1.10	0.59±0.05		as well as condensate polishing with high performance required	







Ionex Condensate Polishing Resins

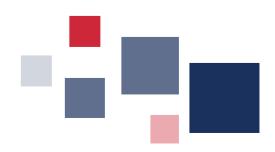
The lonex Monojet products are especially suited for condensate polishing, offering excellent surface area and better dynamic properties, to ensure a high operating exchange capacity and thus protecting from ionic leakage during operation.

Product	Туре	Shipping form	Moisture %	Shipping Weight (kg/l)	Total Capacity (eq/l)	Particle size Mesh (mm)	Uniformity Coefficient	Application
Ionex Monojet	Gel	Na+	39-45	0.78-0.88	≥ 2.20	0.60-0.70	≤ 1.1	
JSC7700 CP	ST	H+	46-51	0.74-0.84	≥ 2.00	0.60-0.70	≤ 1.1	
Ionex Monojet	Gel	CI-	42-49	0.68-0.75	≥ 1.40	0.50-0.60	≤ 1.1	Suitable for high flow rate
JSA8500 CP	ST	OH-	55-65	0.66-0.70	≥ 1.00	0.55-0.65	≤ 1.1	Ionex mixed bed, used in
Ionex Monojet	Macro	Na+	45-55	0.77-0.85	≥ 1.80	0.63±0.05	≤ 1.1	condensate polishing of power plant
MPC3600 CP ST	ST	H+	56-60	0.74-0.80	≥ 1.60	0.65±0.05	≤ 1.1	
Ionex Monojet	Macro	CI-	50-60	0.65-0.73	≥ 1.10	0.63±0.05	≤ 1.1	
MPA9000 CP	ST	OH-	60-70	0.64-0.70	≥ 0.90	0.65±0.05	≤ 1.1	

Ionex Nuclear Grade Resins

The Ionex Monojet Nuclear grade resins offer the highest stability and purity, minimizing the release of ions or organic substances that could cause precipitation and corrosion during operation. The nuclear grade category contains a minimum of 99% regeneration grade.

Product	Туре	Shipping form	Moisture %	Shipping Weight (kg/l)	Total Capacity (eq/l)	Particle size Mesh (mm)	Uniformity Coefficient	Application
Ionex Monojet JSC7100N	Gel ST	H+	49-55	0.72-0.82	≥ 1.9	25-30 (0.55-0.65)	≤ 1.2	Uniform particle size with high purity as well as a low-pressure drop, used in demineralization for the water of Nuclear power plant
Ionex Monojet JSC7700N	Gel ST	H+	45-51	0.74-0.84	≥ 2.15	25-30 (0.60-0.70)	≤ 1.2	
Ionex Monojet JSC7900N	Gel ST	H+	37-43	0.76-0.86	≥ 2.40	25-30 (0.60-0.70)	≤ 1.2	
Ionex Monojet JSA8800N	Gel ST	OH-	54-60	0.66-0.70	≥ 1.2	25-30 (0.58-0.68)	≤ 1.2	





ULTRA PURE Ionex Ultra Pure Water Resins

High-quality UPW (Ultra Pure Water) grade gel-type Ionex Monojet resins are suitable for the preparation of ultra-pure water, especially for the polishing stage of ultra-pure water. They can produce high purity silica-free demineralized water with resistivity higher than $18M\ \Omega$ cm.

Product	Туре	Shipping form	Moisture %	Shipping Weight (kg/l)		Particle size Mesh (mm)	Uniformity Coefficient	Application
Ionex Monojet JSC7700U	Gel ST	H+	46-51	0.74-0.84	≥ 2.00	25-30 (0.60-0.70)	≤ 1.1	Uniform particle size strong acid cation resin for single or mixed bed. Demineralization for ultra pure water applications
Ionex Monojet JSA8500U	Gel ST	OH-	55-65	0.66-0.70	≥ 1.00	30-35 (0.58-0.68)	≤ 1.1	
Ionex Monojet IMB610U	Gel MD	H+/OH-	OH: 62-66 H: 48-53		OH: ≥ 1.1 H: ≥ 1.9	25-30 OH- (0.58-0.68) H+ (0.58-0.68)	OH: ≤ 1.2 H: ≤ 1.2	Suitable for Semi-Conductor Grade Final Polishing, one-way use mixed bed
Ionex Monojet IMB615U	Gel MD	H+/OH-	OH: 54-60 H: 44-51	0.69	OH: ≥ 1.1 H: ≥ 2.0	OH- (0.58-0.68) H+ (0.60-0.70)	OH: ≤ 1.2 H: ≤ 1.2	Suitable for polishing of high purity water for specialty electronics application







PACKAGING OPTIONS

lonex Resins® supplies a complete range of products that have been expertly designed to provide optimum performance in a wide array of specific end-use ion exchange resin markets. Many of these products were developed based upon customer requests to address specific needs using ion exchange resin technology.

Our packaging solutions ensure that our products are delivered to you in the best possible manner. Whether you need small bags, drums, boxes, bulk bags, or tankers, we can supply the product in the appropriate packaging. We produce and ship our products globally and meet the latest international packaging standards and shipping regulations.

Our packaging solutions range from big bags, carton containers and fiber drums to aluminum foil bags. Each option represents the optimal mix of performance and value that best fits your particular needs.

lonex Resins® not only supplies a broad range of ion exchange resins for many different applications and markets, we also offer many flexible options for packaging and shipment as per customer's requirements.

The main specific types of packaging as following:

- 25 liter bags @ 40 bags on a pallet
- 1000 liter big bag on a pallet
- 200 Liter drums @ 4 on a pallet
- 60 Liter drums @ 18 drums on a pallet





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