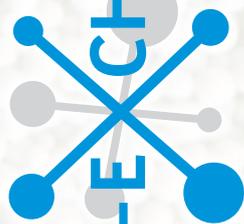


doshion[®]
Translating Source Into Resource



ION-EXCHANGE RESIN

www.doshionpolymers.com

Doshion corporate campus



About Doshion Group

Doshion provides water and waste water management solutions to industry and public since 1975. With installation base in more than 59 countries and a strong workforce of qualified professionals, we deliver seamless and integrated solutions for all water management needs.

To suit precise needs of our customers in various segments and applications we operate on concept of strategic business units covering wide range of technologies and applications. The independent business streams are managed and maintained by top industry professionals ensuring the right solution for optimum performance and highest level of customer service.

Our head office is located in Ahmedabad-India to provide engineering support, technical expertise with full fledged marketing and service setup in India and abroad. The manufacturing and assembly centers are located at 5 different locations in India.

Growth of business, together with our customer is imbibed in our culture and we are willing to learn and walk with our customers continuously to remain strong.

About Doshion Polyscience Pvt. Ltd.

The passion for chemistry has propelled us to constantly renovate ourselves and reinvent the chemistry behind Water treatment.

DPSPL was carved out to offer comprehensive solutions to its customers with focused approach and the core competencies of providing performance oriented solutions to its customers world over. The division offer following range of products;

- Water treatment grade of Ion Exchange Resins
- Pharmaceutical Polymers
- Water and Waste Water Treatment Chemicals
- Membrane Performance Chemicals
- Process Chemicals

Our performance chemicals are enriched through our diverse experience in water treatment, membrane technology, ion exchange process, molecular biology, polymer chemistry and so on.

The sprawling complex of the division with all international class facilities, which include the new age resin manufacturing plant, evaluation laboratory, pharma polymer manufacturing unit and world class R&D set up are the testimony towards our commitment to provide our customers the advanced solutions in water treatment / chemical treatment.



ION-EXCHANGE RESIN



Ion Exchange Resins or Ion Exchangers were invented for meeting the needs of the industries so as to ensure water of high quality that meets the stringent effluent limiting conditions of new age turbines and boilers are achieved.

We at Doshion anticipated and understood this basic needs of industry almost 45 years back. The Doshion resins being manufactured in the unit conforms to strict quality norms of engineering industries and today we at Doshion being known primarily as an EPC / Engineering firm, where we design, install and commission Demineralization/Condensate polishing units understand the chemistry behind Ion exchangers better, hence we undertake maximum checks and controls to ensure that the resins that are manufactured, give optimum performance.

The galloping list of national and international clients have encouraged us to increase our installed capacity to three fold in recent years and add new product range so that we become one of the comprehensive range of resin supplier in the world.

In our effort to bring new products and technologies, we will always change our product specifications / attributes and we commit that Doshion resins will be always in the fore front, whenever our valued customers will look for...

QUALITY... CONSISTENCY... & SERVICES...

General Resin Series

	Resin Type	DOSHION Resin	Matrix Type	Functional Group	Ionic Form	Particle Size (mm)	Moisture Content %	Total Exchange Capacity meq/ml	Applications
SAC	Gel	CSA-9 L	Polystyrene	-SO ₃ ⁻	Na ⁺	0.3 - 1.2	45 - 50	1.9	Water Softening and purification, with good exchange and physical stability.
SAC	Gel	CSA-9 Na	Polystyrene	-SO ₃ ⁻	Na ⁺	0.3 - 1.2	44 - 48	2.0	Water Softening and demineralization, with good exchange capacity and physical stability.
SAC	Gel	CSA-9 H	Polystyrene	-SO ₃ ⁻	H ⁺	0.3 - 1.2	47 - 53	1.8	Demineralization with good exchange capacity and physical stability.
SAC	Gel	CSA-29	Polystyrene	-SO ₃ ⁻	Na ⁺	0.3 - 1.2	40 - 45	2.1	Demineralization & Water purification, with good exchange capacity and physical stability.
SAC	Gel	CSA-29	Polystyrene	-SO ₃ ⁻	H ⁺	0.3 - 1.2	45 - 50	2.0	Demineralization & Water purification, with good exchange capacity and physical stability.
SAC	Gel	CSA-121	Polystyrene	-SO ₃ ⁻	Na ⁺	0.3 - 1.2	47 - 53	1.8	Water Softening and purification, with good exchange capacity and physical stability.
SAC	Macro porous	CSA-609 D	Polystyrene	-SO ₃ ⁻	Na ⁺	0.3 - 1.2	47 - 52	1.8	Water Softening and purification, with good exchange capacity and physical stability.
SAC	Macro porous	CSA-609 D	Polystyrene	-SO ₃ ⁻	H ⁺	0.3 - 1.2	52 - 56	1.6	Demineralization & condensate polishing unit with good exchange capacity and physical stability.
WAC	Gel	CWA-63	Acrylic acid	-COO ⁻	H ⁺	0.3 - 1.2	44 - 53	3.6	Dealkalization with good exchange capacity and physical stability.
WAC	Macro porous	CWA-92	Acrylic acid	-COO ⁻	H ⁺	0.3 - 1.2	45 - 53	4.0	Dealkalization with good exchange capacity and physical stability.
SBA	Gel	GA-11	Polystyrene	-N ⁺ R ₃	Cl ⁻	0.3 - 1.2	48 - 54	1.25	Demineralization & Water purification
SBA	Gel	GA-12	Polystyrene	-N ⁺ R ₃	Cl ⁻	0.3 - 1.2	46 - 52	1.2	Demineralization & Water purification
SBA	Gel	GA-13	Polystyrene	-N ⁺ R ₃	Cl ⁻	0.3 - 1.2	45 - 50	1.3	Demineralisation, Condensate Polishing & Water purification
SBA	Macro porous	ASB-8010 D (Type 1)	Polystyrene	-N ⁺ R ₃	Cl ⁻	0.3 - 1.2	50 - 60	1.2	Demineralisation, Condensate Polishing & Water purification
SBA	Macro porous	ASB-8020 D (Type 2)	Polystyrene	-N ⁺ R ₃	Cl ⁻	0.3 - 1.2	46 - 54	1.2	Demineralization & Water purification
SBA	Iso porous	ASB-108 (Type 1)	Polystyrene	-N ⁺ R ₃	Cl ⁻	0.3 - 1.2	48 - 54	1.25	Demineralization & Water purification
SBA	Iso porous	ASB-171 (Type 2)	Polystyrene	-N ⁺ R ₃	Cl ⁻	0.3 - 1.2	46 - 52	1.2	Demineralization & Water purification
WBA	Macro porous	AWB-7020 D	Polystyrene	-N ⁺ R ₂	Free amine	0.3 - 1.2	44 - 50	1.5	Demineralization & Water purification
WBA	Macro porous	AWB-7030 D	Polystyrene	-N ⁺ R ₂	Free amine	0.3 - 1.2	48 - 56	1.45	Demineralization & Water purification
WBA	Macro porous	AWB-7050 D	Polystyrene	-N ⁺ R ₂	Free amine	0.3 - 1.2	50 - 58	1.3	Demineralization & Water purification

SAC : Strong Acid Cation, SBA : Strong Base Anion, WBA : Weak Base Anion, WAC : Weak Acid Cation, SPL : Speciality

Segments We Serve



Types of Doshion Resins

The Doshion resins are completing four decades of service to Industry. Today we have comprehensive range of Ionic Exchangers.

Be it simple softening resins or complex chelating resins; be it condensate polishing resins or the new age color change resins; from high strength macro reticular resins to high performance acrylic resins; from de-aching resins to resins for purification of antibiotics; from nuclear grade high purity resins to black cation resins, whether its basic isoporous anion resins or high flow gel anion resins. We cover entire gamut of ion exchange resin technology, to be your strategic and solution partner in providing the complete solutions in use of ionic exchangers.

Speciality grade Resin Series

	Resin Type	DOSHION Resin	Matrix Type	Functional Group	Ionic Form	Particle Size (mm)	Moisture Content %	Total Exchange Capacity meq/ml	Applications
High TDS Water Softening									
WAC	Macro porous	CWA-66 D	Polystyrene	-SO ₃ ⁻	H ⁺	0.3-1.25 (99%)	50 - 60	3.0	High TDS Water Softening and purification, with good exchange capacity and physical stability.
Nitrate , Arsenic & Iron Removal									
SBA	Macro porous	DCHR-74	Polystyrene	Nitrate Selective	Cl ⁻	0.3 - 1.2	50 - 56	0.9	Ideal for removal of Nitrate from water for portable process.
SBA	Macro porous	DCHR-78	Polystyrene	Arsenic Selective	Cl ⁻	0.3 - 1.2	50 - 56	0.9	Ideal for removal of Arsenic from water for portable process.
SPL		DIRM 412				0.3 - 1.2	46 - 54		Removal of dissolved Iron from ground water.
High Purity Water									
	Gel	DMB-13	Polystyrene	-SO ₃ ⁻ -N ⁺ R ₃	H ⁺ OH ⁻	0.3 - 1.2	-	-	Deminerlization & Water purification
	Gel	DMB-13 S	Polystyrene	-SO ₃ ⁻ -N ⁺ R ₃	H ⁺ OH ⁻	0.3 - 1.2	-	-	Production of high purity Water for semi-conductor application.
Color Removal & COD Reduction									
SBA	Macro porous	DCR-11 (Type-1)	Polystyrene	-N ⁺ R ₃	Cl ⁻	0.3 - 1.2	50 - 60	0.8	Color removal from Textile waste water, COD reduction from Industrial waste water

Uniform Particle Size (UPS) Grade Resin Series

	Resin Type	DOSHION Resin	Matrix Type	Functional Group	Ionic Form	Particle Size (mm)	Moisture Content %	Total Exchange Capacity meq/ml	Applications
SAC	Gel	CSA-9 Na	Polystyrene	-SO ₃ ⁻	Na ⁺	0.5 - 0.7	43 - 49	2.0	Water Softening and purification, with good exchange capacity and physical stability.
SAC	Gel	CSA-9 H	Polystyrene	-SO ₃ ⁻	H ⁺	0.5 - 0.7	52 - 56	1.8	Deminerlization with good exchange capacity and physical stability.
SAC	Gel	CSA-29	Polystyrene	-SO ₃ ⁻	Na ⁺	0.6 - 0.7	40 - 45	2.1	Deminerlization and water purification, with good exchange capacity and physical stability.
SAC	Gel	CSA-29	Polystyrene	-SO ₃ ⁻	H ⁺	0.6 - 0.7	46 - 57	2.0	Deminerlization and water purification, with good exchange capacity and physical stability.
SBA	Gel	GA-11	Polystyrene	-N ⁺ R ₃	Cl ⁻	0.55 - 0.65	50 - 56	1.2	Deminerlization & Water purification
SBA	Gel	GA-11	Polystyrene	-N ⁺ R ₃	OH ⁻	0.55 - 0.65	56 - 65	1.0	Deminerlization & Water purification
SBA	Gel	GA-13	Polystyrene	-N ⁺ R ₃	Cl ⁻	0.55 - 0.65	46 - 50	1.3	Deminerlisation, Condensate Polishing & Water purification
SBA	Macro porous	ASB-8010 D (Type 1)	Polystyrene	-N ⁺ R ₃	Cl ⁻	0.55 - 0.70	55 - 65	1.1	Deminerlisation, Condensate Polishing & Water purification
WBA	Macro porous	AWB-7050 D	Polystyrene	-N ⁺ R ₃	Free amine	0.5 - 0.6	50 - 63	1.3	Deminerlisation & Water purification
	Gel	DMB-13	Polystyrene	-SO ₃ ⁻ -N ⁺ R ₃	H ⁺ OH ⁻	0.5 - 0.7	53 - 60	1.8 / 1.0	High purity water production

Quality Control



Raw Materials:

QC starts from raw material testing. The incoming raw materials are analyzed as per IS methods before unloading the container. The raw materials are consumed only after approval by QC department. The quality of products are maintained at every stage of manufacturing.

Intermediates:

The intermediates such as chloromethylated beads are analyzed to ensure the final product quality.

Final Products:

The final products pass through stringent international standards like moisture content, TEC, size distribution, sphericity of resin beads cracks, pieces, beads strength etc. All the quality control procedures are as per Quality control certified systems.

Instruments:

All Sophisticated instruments are available such as HPLC, GC with Head Space, AAS, Sodium Analyzer, TOC Analyzer, FITR, Flame-Photometer, Karl Fisher, Auto Titrator etc.

Research & Development Facility



The ultra modern R & D building encompassing all the sphere of resins testing /development and evaluation is one of its kind in Asia. More than 40 scientists, research chemists, and polymer technologists are working with most accurate and modern equipments to constantly upgrade / innovate products for our customers.

Our Research & Development facility situated at Vatva, Ahmedabad includes:

- Resin testing laboratory
- Resin evaluation/validation lab
- Resin synthesis & development set-up



Packing

Doshion resins are available in various packing sizes, viz

- 25 / 50 litres international standard PE bags with liners
- 180 litres MS drums with polythene lined bags
- 200 litres open mouth HDPE barrels / drums
- 1000 litres jumbo bags for bulk buyers

For our international customers, we provide sea worthy packing in palletized condition for easy handling. Doshion also offers customized packing as per customers' requirement.



1000 LTRs Jumbo Bag



25 LTRs Bag



40x25, 44x25 LTRs Bags



Doshion Global Footprint

Algeria	New Zealand
Australia	Oman
Bangladesh	Pakistan
Brazil	Phillippines
Canada	Poland
Chile	Portugal
Congo	Russia
Czech Republic	Saudi Arabia
Dom. Republic	South Africa
Egypt	Spain
Indonesia	Sri Lanka
Iran	Sweden
Israel	Syria
Italy	Taiwan
Japan	Tanzania
Jordan	Thailand
Kenya	Tunisia
Latvia	Turkey
Lithuania	U.S.A.
Malaysia	U.A.E.
Namibia	Ukraine
	Vietnam

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Translating Source Into Resource

Corporate Office :

DOSHION POLYSCIENCE PVT. LTD.

Building No. 9-10, Sigma Corporate,
Behind Rajpath Club, Off S.G. Road,
Bodakdev, Ahmedabad, Gujarat 380054. INDIA.

Phone: +91-79 4008 7766

Email: polymers@doshion.com
resin@doshion.com

 www.doshionpolymers.com