

APPLICATION GUIDE

Ion Exchange Resins for Water Treatment

Product list for multiple applications

Ion exchange resins are widely used in industrial water treatment to purify water for all kind of applications.

CHEMRA is one of the major suppliers of ion exchange resins and adsorbents for water treatment. The overview shows a range of the CHEMRA resin portfolio with a focus on the power industry.

The power industry has different requirements, depending on where water is needed. CHEMRA offers resins for hardness removal and demineralisation units which are either co-flow (CO) or counter-current (CC) regenerated, for condensate polishing, and for the production of high purity water after mixed beds. Mixed beds can be in-situ regenerated or can have an external regeneration. CHEMRA products cover all water treatment applications.

The product range of TREVERLITE ion exchange resins are CHEMRA's standard products for the power industry with a Gaussian particle size distribution and a uniformity coefficient (UC) below 1.6. Some of the products are screened to almost uniform particle size (UN) to provide a range of high performance Gaussian resins at low cost with a narrow particle size distribution.

TREVERJET ion exchange resins offer true monodisperse resins for high performance demineralisation units. Having a UC of 1.1, they allow high-performance operations with the lowest regenerant level possible. This reduces the CO₂ footprint of the operating units efficiently.



CHEMRA Product Range ¹

Designation	Matrix	Structure	Functionality	Ionic form	Moisture [%]	Total capacity [eq/L]	UC	[Particle Size Range] [Fines] (mm)	Max. temp. [°C]
ORGANIC SCAVENGER									
TREVERLITE SCA100	Styrene	MR	strong base Type1	Cl ⁻	50-60	≥ 1.1 (Cl ⁻)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	80 (Cl ⁻)
TREVERLITE SCA200	Acrylate	MR	strong base Type1	Cl ⁻	65-75	≥ 0.8 (Cl ⁻)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	80 (Cl ⁻)
TREVERLITE SCA300	Styrene	MR	strong base Type1	Cl ⁻	70-80	> 0.6 (Cl ⁻)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	80 (Cl ⁻)
SOFTENING									
SOFTENING Co-Flow									
TREVERLITE IXC100/Na	Styrene	Gel	strong acid	Na ⁺	45-52	≥ 1.9 (Na ⁺)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	120
TREVERLITE IXC120/Na	Styrene	Gel	strong acid	Na ⁺	43-48	≥ 2.0 (Na ⁺)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	120
SOFTENING Counter-Current									
TREVERLITE IXC100/UN/Na	Styrene	Gel	strong acid	Na ⁺	45-52	≥ 1.9 (Na ⁺)	≤1.4	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	120
TREVERLITE IXC120/UN/Na	Styrene	Gel	strong acid	Na ⁺	43-48	≥ 2.0 (Na ⁺)	≤1.4	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	120
TREVERJET IXC1200/Na	Styrene	Gel	strong acid	Na ⁺	40-50	≥ 2.0 (Na ⁺)	≤1.2	[0.60 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	120
DE-ALCALISATION									
TREVERLITE IXC300/UN/H	Acrylate	MR	weak acid	H ⁺	45-52	≥ 4.3 (H ⁺)	≤1.4	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	100
TREVERLITE IXC300/H	Acrylate	MR	weak acid	H ⁺	45-52	≥ 4.3 (H ⁺)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	100
DEMINERALISATION									
DEMINERALISATION Continuous processes, External Regeneration									
TREVERLITE IXC200/CP/Na	Styrene	MR	strong acid	Na ⁺	45-50	≥ 1.8 (Na ⁺)	≤1.2	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	120
TREVERLITE IXA350/UN/Cl	Styrene	MR	strong base Type2	Cl ⁻	49-58	≥ 1.2 (Cl ⁻)	≤1.4	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	80 (Cl ⁻)
TREVERLITE IXA300/CP/Cl	Styrene	MR	strong base Type1	Cl ⁻	50-80	≥ 1.1 (Cl ⁻)	≤1.2	[0.5-0.7 : ≥ 95%] [< 0.5 : 1% max.]	60 (OH ⁻)

Designation	Matrix	Structure	Functionality	Ionic form	Moisture [%]	Total capacity [eq/L]	UC	[Particle Size Range] [Fines] (mm)	Max. temp. [°C]
TREVERJET IXA3000/Cl	Styrene	MR	strong base Type1	Cl ⁻	50-60	> 1.1 (Cl ⁻)	≤1.2	[0.63 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	60 (OH)
TREVERJET IXC2000/Na	Styrene	MR	strong acid	Na ⁺	45-55	≥ 1.8 (Na ⁺)	≤1.2	[0.63 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	120
DEMINERALISATION – Co-flow regeneration									
TREVERLITE IXC300/H	Acrylate	MR	weak acid	H ⁺	45-52	≥ 4.3 (H ⁺)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	100
TREVERLITE IXC120/Na	Styrene	Gel	strong acid	Na ⁺	43-48	≥ 2.0 (Na ⁺)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	120
TREVERLITE IXC120/H	Styrene	Gel	strong acid	H ⁺	50-56	≥ 1.8 (H ⁺)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	120
TREVERLITE IXC200/H	Styrene	MR	strong acid	H ⁺	48-58	≥ 1.7 (H ⁺)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	120
TREVERLITE IXA100/Cl	Styrene	Gel	strong base Type1	Cl ⁻	50-56	≥ 1.3 (Cl ⁻)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	60 (OH)
TREVERLITE IXA120/Cl	Styrene	Gel	strong base Type1	Cl ⁻	42-48	≥ 1.35 (Cl ⁻)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	60 (OH)
TREVERLITE IXA200/Cl	Styrene	Gel	strong base Type2	Cl ⁻	44-52	≥ 1.25 (Cl ⁻)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	80 (Cl ⁻)
TREVERLITE IXA700/FB	Acrylate	Gel	weak base	FB	50-62	≥ 1.6 (FB)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	60 (FB)
TREVERLITE IXA300/Cl	Styrene	MR	strong base Type1	Cl ⁻	50-60	≥ 1.1 (Cl ⁻)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	60 (OH)
TREVERLITE IXA350/Cl	Styrene	MR	strong base Type2	Cl ⁻	49-58	≥ 1.2 (Cl ⁻)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	80 (Cl ⁻)
TREVERLITE IXA400/Cl	Acrylate	Gel	strong base	Cl ⁻	55-65	≥ 1.2 (Cl ⁻)	≤1.4	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	35 (OH)
TREVERLITE IXA600/FB	Styrene	MR	weak base	FB	50-58	≥ 1.4 (FB)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	60 (FB)
DEMINERALISATION – Counter current regeneration / Hold-Down Units									
TREVERLITE IXC300/UN/H	Acrylate	MR	weak acid	H ⁺	45-52	≥ 4.3 (H ⁺)	≤1.4	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	100
TREVERLITE IXC120/UN/Na	Styrene	Gel	strong acid	Na ⁺	43-48	≥ 2.0 (Na ⁺)	≤1.4	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	120
TREVERLITE IXC120/UN/H	Styrene	Gel	strong acid	H ⁺	50-56	≥ 1.8 (H ⁺)	≤1.4	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	120
TREVERLITE IXC150/UN/Na	Styrene	Gel	strong acid	H ⁺	38-44	≥ 2.3 (Na ⁺)	≤1.4	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	120
TREVERLITE IXC200/UN/H	Styrene	MR	strong acid	H ⁺	48-58	≥ 1.8 (Na ⁺)	≤1.4	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	130
TREVERLITE IXC200/UN/Na	Styrene	MR	strong acid	Na ⁺	45-50	≥ 1.8 (Na ⁺)	≤1.4	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	130
TREVERLITE IXA120/UN/OH	Styrene	Gel	strong base Type1	OH ⁻	53-58	≥ 1.1 (OH ⁻)	≤1.4	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	60 (OH)
TREVERLITE IXA120/UN/Cl	Styrene	Gel	strong base Type1	Cl ⁻	42-48	≥ 1.35 (Cl ⁻)	≤1.4	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	60 (OH)
TREVERLITE IXA200/UN/Cl	Styrene	Gel	strong base Type2	Cl ⁻	44-52	≥ 1.25 (Cl ⁻)	≤1.4	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	80 (Cl ⁻)
TREVERLITE IXA200/UN/OH	Styrene	Gel	strong base Type2	Cl ⁻	44-52	≥ 1.25 (Cl ⁻)	≤1.4	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	80 (Cl ⁻)
TREVERLITE IXA400/UN/Cl	Acrylate	Gel	strong base	Cl ⁻	55-65	≥ 1.2 (Cl ⁻)	≤1.2	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	35 (OH)
TREVERLITE IXA350/UN/Cl	Styrene	MR	strong base Type2	Cl ⁻	49-58	≥ 1.2 (Cl ⁻)	≤1.4	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	80 (Cl ⁻)
TREVERLITE IXA400/UN/Cl	Acrylate	Gel	strong base	Cl ⁻	55-65	≥ 1.2 (Cl ⁻)	≤1.2	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	35 (OH)
TREVERLITE IXA600/UN/FB	Styrene	MR	weak base	FB	50-58	≥ 1.4 (FB)	≤1.4	[0.4-1.2 : ≥ 95%] [< 0.4 : 1% max.]	60 (FB)
TREVERLITE INR100	Polypropylene		Inert	none					100
DEMINERALISATION - Packed bed systems									
TREVERJET IXC1200/H	Styrene	Gel	strong acid	H ⁺	50-55	≥ 1.8 (H ⁺)	≤1.2	[0.60 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	120
TREVERJET IXC1200/Na	Styrene	Gel	strong acid	Na ⁺	40-50	≥ 2.0 (Na ⁺)	≤1.2	[0.60 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	120
TREVERJET IXC1500/H	Styrene	Gel	strong acid	H ⁺	45-52	≥ 2.0 (H ⁺)	≤1.2	[0.65 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	130
TREVERJET IXC2000/H	Styrene	MR	strong acid	H ⁺	55-60	≥ 1.6 (H ⁺)	≤1.2	[0.65 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	120
TREVERJET IXC2000/Na	Styrene	MR	strong acid	Na ⁺	45-55	≥ 1.8 (Na ⁺)	≤1.2	[0.63 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	120
TREVERJET IXA2000/Cl	Styrene	Gel	strong base Type2	Cl ⁻	40-50	≥ 1.3 (Cl ⁻)	≤1.2	[0.62 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	80 (Cl ⁻)
TREVERJET IXA1200/OH	Styrene	Gel	strong base Type1	OH ⁻	60-66	≥ 1.0 (OH ⁻)	≤1.2	[0.73 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	60 (OH)
TREVERJET IXA1200/Cl	Styrene	Gel	strong base Type1	Cl ⁻	48-56	≥ 1.3 (Cl ⁻)	≤1.2	[0.65 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	80 (Cl ⁻)
TREVERJET IXA1500/Cl	Styrene	Gel	strong base Type1	Cl ⁻	42-49	≥ 1.4 (Cl ⁻)	≤1.2	[0.55 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	60 (OH)
TREVERJET IXA3000/OH	Styrene	MR	Strong base Type1	OH ⁻	60-70	≥ 0.9 (OH ⁻)	≤1.2	[0.65 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	60 (OH)
TREVERJET IXA3000/Cl	Styrene	MR	Strong base Type1	Cl ⁻	50-60	> 1.1 (Cl ⁻)	≤1.2	[0.63 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	60 (OH)
TREVERJET IXA6000/FB	Styrene	MR	Weak base	FB	51-59	≥ 1.5	≤1.2	[0.60 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	60 (FB)
DEMINERALISATION - Stratified bed systems									
TREVERLITE IXA120/SB/Cl	Styrene	Gel	strong base Type1	Cl ⁻	42-48	≥ 1.35 (Cl ⁻)	≤1.4	[0.6-1.2 : ≥ 95%] [< 0.6 : 1% max.]	60 (OH)
TREVERLITE IXA200/UN/Cl	Styrene	Gel	strong base Type2	Cl ⁻	44-52	≥ 1.25 (Cl ⁻)	≤1.4	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	80 (Cl ⁻)
TREVERLITE IXA600/SB/FB	Styrene	MR	weak base	FB	50-58	≥ 1.4 (FB)	≤1.4	[0.3-0.6 : ≥ 95%] [< 0.3 : 1% max.]	60 (FB)
TREVERLITE IXC300/SB/H	Acrylate	MR	weak acid	H ⁺	45-52	≥ 4.3 (H ⁺)	≤1.4	[0.3-0.6 : ≥ 95%] [< 0.3 : 1% max.]	100
TREVERJET IXC1500/H	Styrene	Gel	strong acid	H ⁺	45-52	≥ 2.0 (H ⁺)	≤1.2	[0.65 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	130
DEMINERALISATION - CONDENSATE POLISHING									
TREVERLITE IXC150/UN/Na	Styrene	Gel	strong acid	H ⁺	38-44	≥ 2.3 (Na ⁺)	≤1.4	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	120
TREVERJET IXA3050/SO4	Styrene	MR	strong base Type1	SO ₄ ²⁻	42-48	≥ 1.4 (Cl ⁻)	≤1.2	[0.5-0.7 : ≥ 95%] [< 0.5 : 1% max.]	60 (OH)
TREVERLITE IXC200/CP/H	Styrene	MR	strong acid	H ⁺	48-58	≥ 1.7 (H ⁺)	≤1.2	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	120
TREVERLITE IXA300/CP/Cl	Styrene	MR	strong base Type1	Cl ⁻	50-60	≥ 1.1 (Cl ⁻)	≤1.2	[0.5-0.7 : ≥ 95%] [< 0.5 : 1% max.]	60 (OH)
TREVERJET IXC2800/Na	Styrene	MR	strong acid	Na ⁺	40-50 (H ⁺)	≥ 1.8 (Na ⁺)	≤1.2	[0.7-0.9 : ≥ 95%] [< 0.5 : 1% max.]	120
TREVERJET IXA3800/CL	Styrene	MR	strong base Type1	Cl ⁻	40-50 (OH)	≥ 1.2 (OH)	≤1.2	[0.5-0.7 : ≥ 95%] [< 0.5 : 1% max.]	60 (OH)
TREVERLITE IXC220/CP/H	Styrene	MR	strong acid	H ⁺	40-50	> 1.8 (Na ⁺)	≤1.2	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	130

Designation	Matrix	Structure	Functionality	Ionic form	Moisture [%]	Total capacity [eq/L]	UC	[Particle Size Range] [Fines] (mm)	Max. temp. [°C]
TREVERLITE IXA330/CP/Cl	Styrene	MR	strong base Type1	Cl ⁻	42-52	≥ 1.4 (Cl ⁻)	≤1.2	[0.5-0.7 : ≥ 95%] [< 0.5 : 1% max.]	80 (OH)
TREVERJET IXA3050/OH	Styrene	MR	strong base Type1	OH ⁻	50-60	≥ 1.0 (OH ⁻)	≤1.2	[0.5-0.7 : ≥ 95%] [< 0.5 : 1% max.]	60 (OH)
TREVERLITE IXA300/CP/SO4	Styrene	MR	strong base Type1	SO ₄ ²⁻	50-60 (Cl ⁻)	≥ 0.9 (OH ⁻)	≤1.2	[0.5-0.7 : ≥ 95%] [< 0.5 : 1% max.]	60 (OH)
TREVERLITE IXC200/CP/Na	Styrene	MR	strong acid	Na ⁺	45-50	≥ 1.8 (Na ⁺)	≤1.2	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	120
TREVERLITE IXA150/CP/OH	Styrene	Gel	strong base Type1	OH ⁻	50-60	> 1.1 (OH ⁻)	≤1.2	[0.4-0.9 : ≥ 95%] [< 0.4 : 0.5% max.]	60 (OH)
TREVERLITE IXA150/CP/Cl	Styrene	Gel	strong base Type1	Cl ⁻	40-50	≥ 1.3 (Cl ⁻)	≤1.2	[0.4-0.9 : ≥ 95%] [< 0.4 : 0.5% max.]	60 (OH)
TREVERLITE IXC150/CP/H	Styrene	Gel	strong acid	H ⁺	35-45	≥ 2.1 (H ⁺)	≤1.2	[0.4-1.2 : ≥ 95%] [< 0.4 : 0.5% max.]	120
TREVERJET IXA1210/Cl	Styrene	Gel	strong base Type1	Cl ⁻	48-56	≥ 1.3 (Cl ⁻)	≤1.2	[0.57 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	80 (Cl)
TREVERJET IXA1210/OH	Styrene	Gel	strong base Type1	OH ⁻	62-70	≥ 1.0 (OH ⁻)	≤1.2	[0.62 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	60 (OH)
TREVERJET IXC1210/Na	Styrene	Gel	strong acid	Na ⁺	43-50	≥ 2.0 (Na ⁺)	≤1.2	[0.60 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	120
TREVERJET IXA1510/OH	Styrene	Gel	strong base Type1	OH ⁻	58-66	≥ 1.0 (OH ⁻)	≤1.2	[0.59 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	60 (OH)
TREVERJET IXC1510/H	Styrene	Gel	strong acid	H ⁺	45-52	≥ 2.0 (H ⁺)	≤1.2	[0.66 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	130
TREVERJET IXC1210/H	Styrene	Gel	strong acid	H ⁺	50-56	≥ 1.8 (H ⁺)	≤1.2	[0.62 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	120
TREVERJET IXC1600/H	Styrene	Gel	strong acid	H ⁺	35-43	≥ 2.4 (H ⁺)	≤1.2	[0.60 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	130
TREVERJET IXA1500/OH	Styrene	Gel	strong base Type1	OH ⁻	54-66	≥ 1.0 (OH ⁻)	≤1.2	[0.59 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	60 (OH)
TREVERJET IXC1500/H	Styrene	Gel	strong acid	H ⁺	45-52	≥ 2.0 (H ⁺)	≤1.2	[0.65 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	130
TREVERJET IXA1500/Cl	Styrene	Gel	strong base Type1	Cl ⁻	42-49	≥ 1.4 (Cl ⁻)	≤1.2	[0.55 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	60 (OH)
TREVERJET IXC1410/H	Styrene	Gel	strong acid	H ⁺	45-52	≥ 2.0 (H ⁺)	≤1.2	[0.66 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	130
TREVERJET IXA1410/Cl	Styrene	Gel	strong base Type1	Cl ⁻	42-50	≥ 1.35 (Cl ⁻)	≤1.2	[0.55 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	60 (OH)
TREVERJET IXC1500/Na	Styrene	Gel	strong acid	Na ⁺	39-45	≥ 2.2 (Na ⁺)	≤1.2	[0.65 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	130
TREVERLITE INR200	Acrylate		Inert	none				[0.7-0.9 : ≥ 98%]	100
DEMINEALISATION - MIXED BED SYSTEMS									
MIXED BEDS - SEPARATE RESINS									
TREVERLITE IXC100/UN/H	Styrene	Gel	strong acid	H ⁺	50-57	≥ 1.75 (H ⁺)	≤1.4	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	120
TREVERLITE IXC200/UN/H	Styrene	MR	strong acid	H ⁺	48-58	≥ 1.7 (H ⁺)	≤1.4	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	130
TREVERLITE IXA100/UN/OH	Styrene	Gel	strong base Type1	OH ⁻	60-70	≥ 0.9 (OH ⁻)	≤1.4	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	60 (OH)
TREVERLITE IXA100/UN/Cl	Styrene	Gel	strong base Type1	Cl ⁻	50-56	≥ 1.3 (Cl ⁻)	≤1.4	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	60 (OH)
TREVERLITE IXA300/UN/Cl	Styrene	MR	strong base Type1	Cl ⁻	50-60	≥ 1.1 (Cl ⁻)	≤1.4	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	60 (OH)
TREVERJET IXC1200/H	Styrene	Gel	strong acid	H ⁺	50-55	≥ 1.8 (H ⁺)	≤1.2	[0.60 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	120
TREVERJET IXC1500/H	Styrene	Gel	strong acid	H ⁺	45-52	≥ 2.0 (H ⁺)	≤1.2	[0.65 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	130
TREVERJET IXC2000/H	Styrene	MR	strong acid	H ⁺	55-60	≥ 1.6 (H ⁺)	≤1.2	[0.65 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	120
TREVERJET IXA1200/Cl	Styrene	Gel	strong base Type1	Cl ⁻	48-56	≥ 1.3 (Cl ⁻)	≤1.2	[0.65 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	80 (Cl)
TREVERJET IXA1500/Cl	Styrene	Gel	strong base Type1	Cl ⁻	42-49	≥ 1.4 (Cl ⁻)	≤1.2	[0.55 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	60 (OH)
TREVERJET IXA1500/OH	Styrene	Gel	strong base Type1	OH ⁻	54-66	≥ 1.0 (OH ⁻)	≤1.2	[0.59 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	60 (OH)
TREVERJET IXA3000/Cl	Styrene	MR	strong base Type1	Cl ⁻	50-60	> 1.1 (Cl ⁻)	≤1.2	[0.63 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	60 (OH)
MIXED BEDS - READY TO USE									
TREVERLITE MB090	Styrene	Gel	strong acid strong base	H ⁺ OH ⁻	57-67	≥ 1.9 (H ⁺) ≥ 1.0 (OH ⁻)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	60
TREVERLITE MB100	Styrene	Gel	strong acid strong base	H ⁺ OH ⁻	57-67	> 1.9 (H ⁺) > 1.0 (OH ⁻)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	60
TREVERLITE MB200	Styrene	Gel	strong acid strong base	H ⁺ OH ⁻	57-67	> 1.9 (H ⁺) > 1.0 (OH ⁻)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	60
TREVERLITE MB200/Blue	Styrene	Gel	strong acid strong base	H ⁺ OH ⁻	57-67	> 1.8 (H ⁺) > 1.0 (OH ⁻)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	60
TREVERLITE MB300	Styrene	Gel	strong acid strong base	H ⁺ OH ⁻	50-60 (SAC) 60-70 (SBA)	≥ 1.8 (H ⁺) ≥ 1.0 (OH ⁻)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	60
POTABLE WATER									
TREVERLITE IXC110/Na	Styrene	Gel	strong acid	Na ⁺	43-48	≥ 2.0 (Na ⁺)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	120
TREVERLITE IXC110/UN/Na	Styrene	Gel	strong acid	Na ⁺	43-48	≥ 2.0 (Na ⁺)	≤1.4	[0.5-1.2 : ≥ 95%] [< 0.5 : 1% max.]	120
TREVERLITE IXC330/H	Acrylate	MR	weak acid	H ⁺	45-52	≥ 4.3 (H ⁺)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	70
TREVERLITE IXC310/H	Acrylate	MR	weak acid	H ⁺	45-52	≥ 4.3 (H ⁺)	≤1.6	[0.3-1.2 : ≥ 95%] [< 0.3 : 1% max.]	70
TREVERLITE IXA810/Cl	Styrene	MR	strong base	Cl ⁻	48-58	> 0.9 (Cl ⁻)	≤1.6	[0.4-1.2 : ≥ 95%] [< 0.4 : 1% max.]	80 (Cl)
ULTRAPURE WATER									
TREVERJET UPC1400/H	Styrene	Gel	strong acid	H ⁺	45-52	≥ 2.0 (H ⁺)	≤1.2	[0.65 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	120
TREVERJET UPC1400/Na	Styrene	Gel	strong acid	Na ⁺	39-45	≥ 2.2 (Na ⁺)	≤1.2	[0.65 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	120
TREVERJET UPC4000/H	Styrene	Gel	strong acid	H ⁺	50-56	≥ 1.9 (H ⁺)	≤1.1	[0.62 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	120
TREVERJET UPC5000/H	Styrene	Gel	strong acid	H ⁺	50-56	≥ 1.9 (H ⁺)	≤1.1	[0.62 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	120
TREVERJET UPA1400/OH	Styrene	Gel	strong base Type1	OH ⁻	55-65	≥ 1.0 (OH ⁻)	≤1.2	[0.59 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	60 (OH)
TREVERJET UPA1400/Cl	Styrene	Gel	strong base Type1	Cl ⁻	42-49	≥ 1.4 (Cl ⁻)	≤1.2	[0.55 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	60 (OH)

Designation	Matrix	Structure	Functionality	Ionic form	Moisture [%]	Total capacity [eq/L]	UC	[Particle Size Range] [Fines] (mm)	Max. temp. [°C]
TREVERJET UPA4000/OH	Styrene	Gel	strong base Type1	OH ⁻	62-70	≥1.0 (OH)	≤1.1	[0.62 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	60 (OH)
TREVERJET UPA5000/OH	Styrene	Gel	strong base Type1	OH ⁻	62-70	≥1.0 (OH)	≤1.1	[0.62 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	60 (OH)
TREVERJET UPM4000	Styrene	Gel	Ready to use MB	H ⁺ OH ⁻	50-56 (SAC) 62-70 (SBA)	≥1.9 (H ⁺) ≥1.0 (OH)	≤1.1	[0.62 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	60
TREVERJET UPM4100	Styrene	Gel	Ready to use MB	H ⁺ OH ⁻	50-56 (SAC) 62-70 (SBA)	≥1.9 (H ⁺) ≥1.0 (OH)	≤1.1	[0.62 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	60
TREVERJET UPM5000	Styrene	Gel	Ready to use MB	H ⁺ OH ⁻	50-56 (SAC) 62-70 (SBA)	≥1.9 (H ⁺) ≥1.0 (OH)	≤1.1	[0.62 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	60
TREVERJET UPM1000	Styrene	Gel	Ready to use MB	H ⁺ OH ⁻	44-54 (SAC) 54-64 (SBA)	>2.0 (H ⁺) >1.0 (OH)	≤1.2	[0.6-0.7 (SAC)] : ≥ 95% [0.58-0.68 (SBA)] : ≥ 95% [< 0.5 : 0.5% max.]	60
NUCLEAR GRADE RESINS									
TREVERJET NPC1200/H	Styrene	Gel	strong acid	H ⁺	48-55	≥1.9 (H ⁺)	≤1.2	[0.65 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	120
TREVERJET NPC1500/H	Styrene	Gel	strong acid	H ⁺	45-52	≥2.1 (H ⁺)	≤1.2	[0.55 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	120
TREVERJET NPC1600/H	Styrene	Gel	strong acid	H ⁺	35-43	≥2.5 (H ⁺)	≤1.2	[0.55 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	120
TREVERJET NPA1500/OH	Styrene	Gel	strong base Type1	OH ⁻	53-60	≥1.2 (OH)	≤1.2	[0.63 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	60 (OH)
TREVERJET NPA1600/OH	Styrene	Gel	strong base Type1	OH ⁻	50-60	≥1.3 (OH)	≤1.2	[0.55 ± 0.05 : ≥ 95%] [< 0.3 : 0.5% max.]	60 (OH)
TREVERJET NPM1500	Styrene	Gel	Ready to use MB	H ⁺ OH ⁻	48-55 (SAC) 54-60 (SBA)	≥1.9 (H ⁺) ≥1.2 (OH)	≤1.2	[0.65 ± 0.05 (SAC)] : ≥ 95% [0.63 ± 0.05 (SBA)] : ≥ 95% [< 0.3 : 0.5% max.]	60
TREVERJET NPM1600	Styrene	Gel	Ready to use MB	H ⁺ OH ⁻	42-52 (SAC) 54-60 (SBA)	≥2.1 (H ⁺) ≥1.2 (OH)	≤1.2	[0.55 ± 0.05 (SAC)] : ≥ 95% [0.63 ± 0.05 (SBA)] : ≥ 95% [< 0.3 : 0.5% max.]	60
TREVERJET NPM1700	Styrene	Gel	Ready to use MB	H ⁺ OH ⁻	35-43 (SAC) 54-60 (SBA)	≥2.5 (H ⁺) ≥1.2 (OH)	≤1.2	[0.55 ± 0.05 (SAC)] : ≥ 95% [0.63 ± 0.05 (SBA)] : ≥ 95% [< 0.3 : 0.5% max.]	60
TREVERJET NPM2000	Styrene	Gel	Ready to use MB	H ⁺ OH ⁻	45-52 (SAC) 54-60 (SBA)	≥2.1 (H ⁺) ≥1.2 (OH)	≤1.2	[0.55 ± 0.05 (SAC)] : ≥ 95% [0.63 ± 0.05 (SBA)] : ≥ 95% [< 0.3 : 0.5% max.]	60

¹⁾ for additional properties please refer to the individual data sheet

Safety

Polymeric resins can swell significantly between the aqueous and pure solvent phases or when rewetted. Care should be taken. Glass columns and even steel columns can break. Wear glasses when using resin systems. To avoid high pressure build up, an operation in counter-current or up-flow through the polymer bed shall be considered. Please check also the corresponding MSDS for detailed information.



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