



ION EXCHANGE RESIN

PersaLite™ UPS1500 Na Uniform Particle Size Strong Acid Cation

DESCRIPTION AND APPLICATIONS

PersaLite™ UPS1500 Na is a uniform particle size, gel, strong acid cation exchange resin for water softening and demineralization applications in co-flow, counterflow, packed beds, layered beds and mixed beds systems.

SPECIFICATIONS

Copolymer:	Styrene-divinylbenzene
Matrix:	Gel
Functional Group:	Sulfonic Acid
Physical Form:	Dark brown beads
Ionic Form:	Na ⁺
Total Capacity:	≥ 2.0 eq/L (Na ⁺ form)
Moisture Content:	42 – 48 %
Particle Size:	585 ± 50 µm
Uniformity Coefficient:	≤ 1.1
< 300 µm	≤ 0.10 %
≥ 850 µm	≤ 3.00 %
Whole Beads Count:	≥ 95 %
Swelling:	Na ⁺ → H ⁺ : ≤ 8%
Particle Density:	1.280 g/mL
Bulk Density:	820 g/L (51.2 lb/ft ³)

SUGGESTED OPERATING CONDITIONS

Temperature Range:	5 – 120°C (Na ⁺ form)
pH Range:	1 – 14
Service Flow Rate:	8 – 40 BV/h

HYDRAULIC CHARACTERISTICS

Figure 1 shows the estimated bed expansion as a function of backwash flow rate and temperature. Estimated values of pressure drop across the bed resin as a function of flow rate and temperature are in Figure 2.

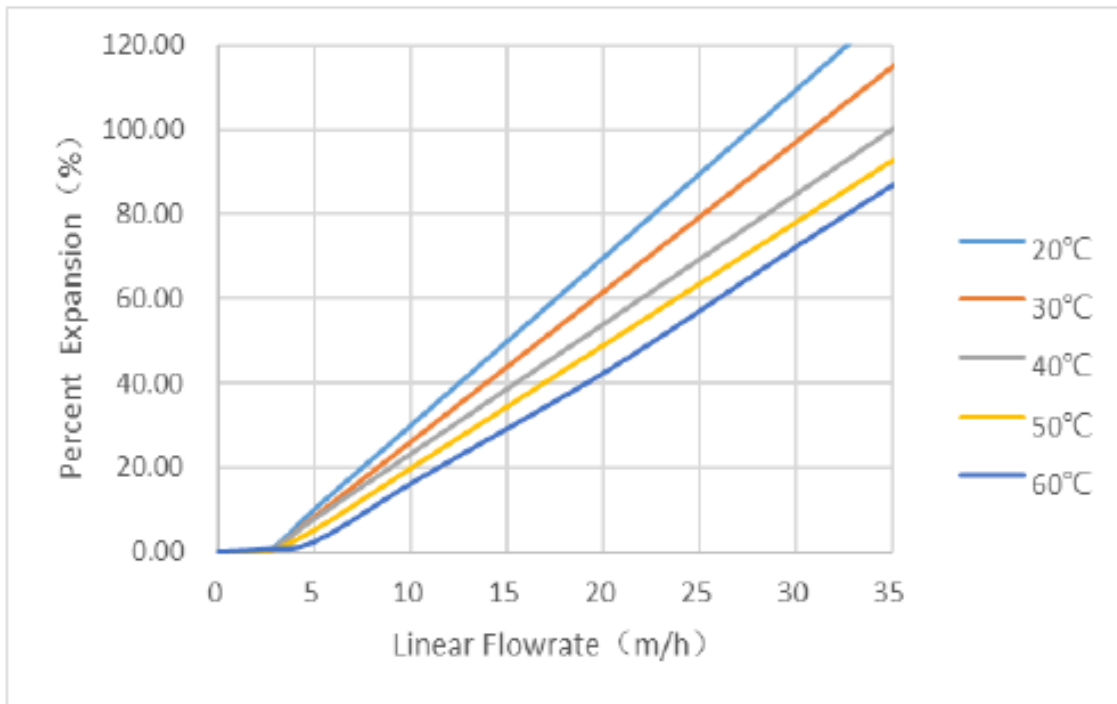


Figure 1: Backwash expansion

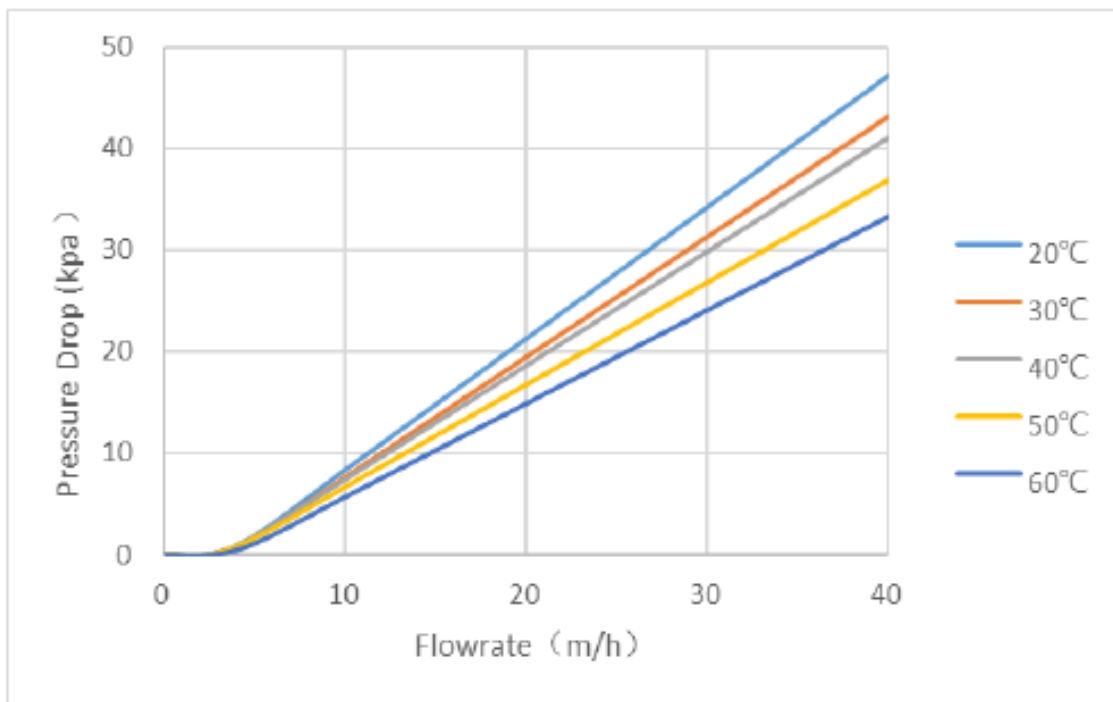


Figure 2: Pressure drop

Notes: The information and data are in good faith but without guarantee. Please consult our engineering team for more information before installing and operating the resin. Modifications of the specifications can occur without prior notice. IX resins should be stored in sealed bags in areas with a temperature above 0°C. See MSDS for safety issues.