

GRAVEX



Graver Technologies

GR 2-0 UP

Ultra Pure Grade

Gravex GR 2-0 UP is a high capacity gel cation exchange resin. This product is specially processed to insure low TOC levels for ultrapure water applications. It is suitable for use in a two bed system preceding the GR 1-0 UP ultrapure anion or the two products are available as the polishing mixed bed GR 3-0 UP.

TYPICAL PROPERTIES

Type		Strong Acid Cation
Matrix		Styrene Divinylbenzene
Functionality		Sulfonic Acid
Ionic Form		Hydrogen
Total Exchange Capacity	meq/mL	2.0 (min)
Water Retention	%	46–52
Friability		
Average	g/bead	500 (min)
> 200 g/bead	%	95 (min)
Particle Size		
> 16 mesh	%	2 (max)
< 45 mesh	%	2 (max)
Approx. Shipping Weight	lbs/ft ³	49

RINSE PROPERTIES

10 ppb Δ TOC	Bed Volumes	80 (max)
15 megohm-cm Resistivity	Bed Volumes	80 (max)



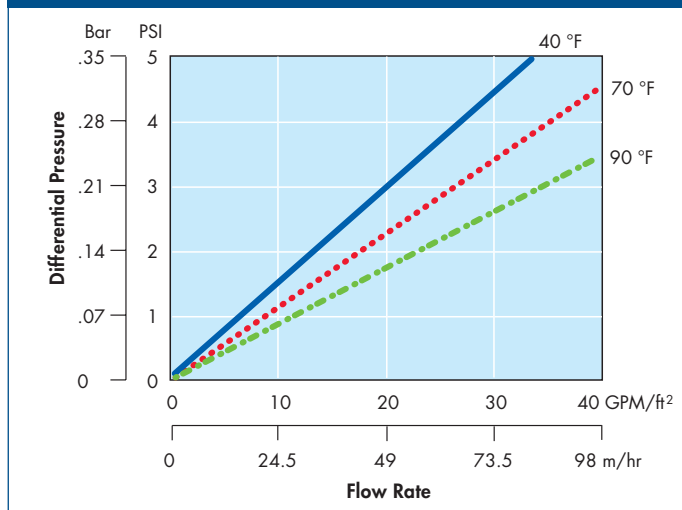
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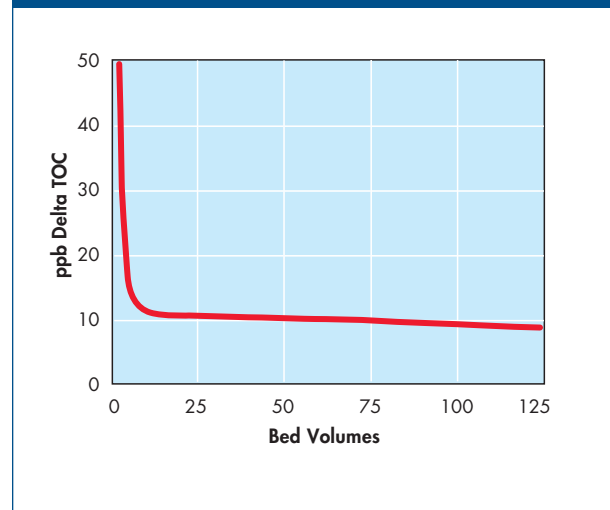
RECOMMENDED OPERATING CONDITIONS

Max. Operating Temperature	120°C (250°F)
Min. Bed Depth	800 mm (2.6 ft)
Linear Flow Rate	5–60 m/hr (2–24 gpm/ft ²)
Volume Flow Rate	8–48 BV/hr (1–6 gpm/ft ³)
Regenerant	HCl or H ₂ SO ₄
Concentration	1–8 %
Dosage	64–240 g/L (4–15 lbs/ft ³)
Linear Flow Rate	4–10 m/hr (1.6–4 gpm/ft ²)
Volume Flow Rate	4–12 BV/hr (0.5–1.5 gpm/ft ³)
Rinse	
Linear Flow Rate	5–50 m/hr (2–20 gpm/ft ²)
Volume Flow Rate	8–48 BV/hr (1–6 gpm/ft ³)

GR 2-0 UP – PRESSURE DROP



GR 2-0 UP – TYPICAL DELTA TOC



For more information

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