

DOWEX™ PSR-2

A Strong Base Anion Exchange Resin Designed for the Selective Removal of Trace Contaminants from Potable Water

Product	Туре	Matrix	Functional group
DOWEX™ PSR-2	Tri-n-butyl amine	Styrene-DVB, gel	Quatenary amine
Typical Properties			Cl ⁻ form
Total exchange capacity, min.		eq/L	0.65
Matanaantant		kgr/ft³ as CaCO₃ %	14.2 40.0 - 47.5
Water content		<u></u> %	40.0 - 47.5
Bead size distribution [†] % on 16 mesh, max.		%	3
% through 40 mesh, max.		%	5
Whole uncracked beads, min.		%	95
Crush strength (>200 g/bead, min.)		%	90
Shipping weight**		g/L lbs/ft³	670 42
		ID5/It°	
Recommended	Maximum operating ter	nperature	60°C (140°F)
Recommended Operating Conditions	Maximum operating terpH range	mperature	
Operating		mperature	60°C (140°F)
Operating	• pH range	mperature	60°C (140°F) 0 - 14

[†] For additional particle size information, please refer to Particle Size Distribution Cross Reference Chart (Form No. 177-01775).

^{**} As per the backwashed and settled density of the resin, determined by ASTM D-2187.

Typical Properties and Applications

DOWEX™ PSR-2 is a gellular strong base anion resin supplied in the Cl⁻ form. It is designed to offer the highest selectivity for trace contaminants such as nitrate and perchlorate, while it's gellular structure also achieves high total exchange capacity.

Applications include:

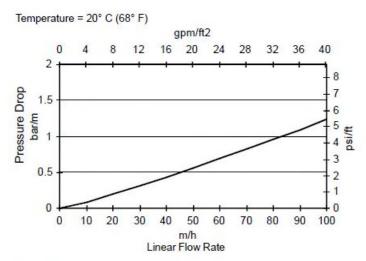
- Perchlorate retention and removal
- Gold recovery

This product has been certified under ANSI Standard 61.

Packaging

5 cubic feet fiber drums

Figure 1. Pressure Drop Data



For other temperatures use:

 $P_T = P_{20^{\circ}C} / (0.026 \, T_{\circ C} + 0.48)$, where P = bar/m $P_T = P_{68^{\circ}F} / (0.014 \, T_{\circ F} + 0.05)$, where P = psi/ft

DOWEX™ Ion Exchange Resins For more information about DOWEX resins, call the Dow Water Solutions business:

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Warning: Oxidizing agents such as nitric acid attack organic ion exchange resins under certain conditions. This could lead to anything from slight resin degradation to a violent exothermic reaction (explosion). Before using strong oxidizing agents, consult sources knowledgeable in handling such materials.

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