



DOWEX MONOSPHERE 600BB Inert Resin

A Uniform Particle Size Inert Resin for Use in Mixed Bed Demineralization and Condensate Polishing Applications

Product	Type	Matrix	Functional group
DOWEX* MONOSPHERE* 600BB	Inert	Styrene-DVB-acrylate terpolymer	None

Guaranteed Sales Specifications

Bead size distribution†			
Mean particle size		μm	600 ± 50
Uniformity coefficient, max.			1.1
Specific gravity @ 77 deg. F			1.14 - 1.16

Typical Physical and Chemical Properties

Particle density		g/ml	1.15
Shipping weight		g/l	670
		lbs/ft ³	42

Recommended Operating Conditions

Maximum operating temperature			60°C (140°F)
pH range			0-14
Bed depth, min.			15 cm (6 in)

†For additional particle size information, please refer to the Particle Size Distribution Cross Reference Chart (Form No. 177-01775/CH 171-476-E).

DOWEX Ion Exchange Resins

For more information about DOWEX resins,
call Dow Liquid Separations business:

North America 1-800-447-4369
Latin America (+55) 11-5188-9345
Europe (+31) 20-691-6268
Japan (+81) 3-5460-2100
Australia (+61) 2-9776-3226
<http://www.dow.com/liquidseps>

Typical properties and applications:

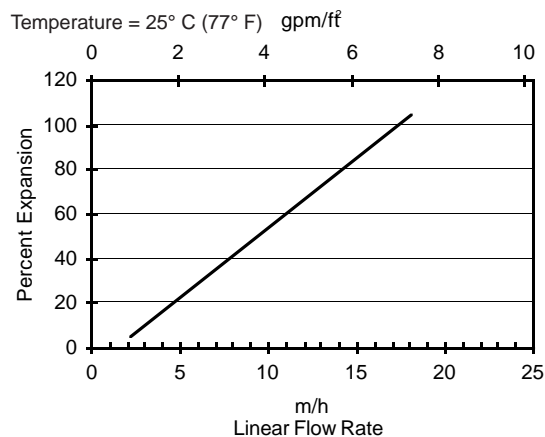
DOWEX* MONOSPHERE* 600BB inert resin is a non-functionalized resin used to enhance separation of mixed beds during regeneration. Its density is between the densities of strong acid cation exchange resin and strong base anion exchange resin. It also has a tightly controlled, uniform particle size. These combined properties ensure the

terminal settling velocity is intermediate to that of the cation and anion resins creating an inert "Buffer Zone" between the functional resins following backwash. Separation of the two functional components of a mixed bed reduces the risk of cross-regeneration, improving water quality and reducing rinse time.

Packaging

25 liter bags or 5 cubic feet fiber drums.

Figure 1. Backwash Expansion Data



For other temperatures use:

$$F_T = F_{77°F} [1 + 0.008 (T_F - 77)], \text{ where } F \equiv \text{gpm/ft}^2$$

$$F_T = F_{25°C} [1 + 0.008 (1.8T_C - 45)], \text{ where } F \equiv \text{m/h}$$

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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