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DOWEX C-75 NG (H) A Macroporous Strong Acid Cation Exchange Resin for Nuclear Water Applications

Product	Туре	Matrix	Functional group
DOWEX™ C-75 NG (H)	Strong acid cation	Styrene-DVB, macroporous	Sulfonic acid

Guaranteed Sale	s Specifications				H+ form	
Total exchange ca	Total exchange capacity, min.		eq/L		1.7	
			kgr/ft³ as CaCO₃		37.1	
Water content		%			50 - 56	
Bead size distribut	Ition [†]					
> 1,200 µm, ma	x. (16 mesh)	nesh) %		% 3		
< 300 µm, max.	(50 mesh)		%		0.2	
Whole beads, mir	۱.	%			95	
Ionic conversion,	min.	%			99.7	
Trace metals, ppr	n dry resin, max.					
Na	Fe	Cu	AI	Со	Pb	Hg
60	100	30	50	30	30	20

Typical Physical and Chemical Prop	perties	H⁺ form	
Particle density	g/mL	1.20	
Shipping weight	g/L	750	
	lbs/ft ³	47	

Recommended Operating	Maximum operating temperaturepH range	150°C (300°F) 0 - 14	
Conditions	 Bed depth, min.: Mixed bed Single bed 	450 mm (1.5 ft) 800 mm (2.6 ft)	

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

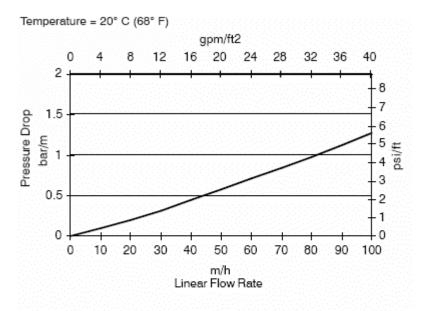
Typical Properties and **Applications** DOWEX C-75 NG (H) strong acid cation exchange resin is a macroporous resin with excellent physical and chemical stability. It is supplied with a minimum of 99.7% of ionic sites in the H⁺ form and a low level of impurities. DOWEX C-75 NG (H) resin exhibits outstanding selectivity for Cs and Co isotopes resulting in high decontamination factors for these species.

It is available as a mixed bed resin together with DOWEX SBR LC NG (OH) anion exchange resin as DOWEX MR-72 LC NG.

Packaging

50 liter or 5 cubic foot drums

Figure 1. Pressure Drop Data



For other temperatures use:

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

DOWEX Ion Exchange Resins

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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