



## DOWEX™ IR 100 H/Na

A high capacity strong acid cation resin for Industrial softening and Dimineralization Applications.

Product	Type	Matrix	Functional Group
DOWEX™ IR 100	Strong acid Cation	Gel	Sulfonic acid

Guaranteed Sales Specification		Na form	H form
Total Exchange Capacity, min.	eq/L	2.0	1.8
Water content	%	42 - 50	50 - 58
Uniformity Coefficient, max		1.9	1.9

Typical Physical and Chemical Properties				
Harmonic Mean Size	mm	0.5 - 0.7	0.5 - 0.7	
Fine beads, < 0.3 mm	%	max. 2.0	max. 2.0	
Whole uncracked Beads content	%	95 - 100	95 - 100	
Total Swelling (Na <sup>+</sup> → H <sup>+</sup> )	%	max. 11		
Shipping Weight	g/L	840	820	
Available packing		25 L bag	25 L bag	

### Recommended Operating Conditions

- Maximum operating temperature 120°C (250°F)
- pH range 0 - 14
- Bed depth, min. 800 mm (2.6 ft)
- Flow rates:
  - Service/fast rinse 5 - 60 m/h (2 - 24 gpm/ft<sup>2</sup>)
  - Backwash see figure 1
  - Co-current regeneration/displacement rinse 1 - 10 m/h (0.4 - 4 gpm /ft<sup>2</sup>)
  - Counter-current regeneration/displacement rinse 5 - 20 m/h (2 - 8 gpm /ft<sup>2</sup>)
- Total rinse requirement 2 - 5 Bed volumes
- Regenerant 1 - 8% H<sub>2</sub>SO<sub>4</sub>, 4 - 8% HCl or 8 - 12% NaCl

**Note: These resins may be subject to drinking water application restrictions in some countries; please check the application status before use and sale.**

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

North America: 1-800-447-4369  
Latin America: (+55) 11-5188-9222  
Europe: (+32) 3-450-2240  
Pacific: +60 3 7958 3392  
Japan: +813 5460 2100  
China: +86 21 2301 9000

<http://www.dowex.com>

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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