



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 ⁺ → H ⁺) | % | 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/ft²)
 - Backwash see figure 1
 - Co-current regeneration/displacement rinse 1 - 10 m/h (0.4 - 4 gpm /ft²)
 - Counter-current regeneration/displacement rinse 5 - 20 m/h (2 - 8 gpm /ft²)
- Total rinse requirement 2 - 5 Bed volumes
- Regenerant 1 - 8% H₂SO₄, 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:

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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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