



## Product Data Sheet

# HIX1-Nano100

**WIST HIX1-Nano100** is a hybrid strong acid cation exchanger loaded with hydrated iron oxide nanoparticles. HIX1-Nano100 resin is suitable for selective removal of dissolved iron, control of hardness along with partial removal of arsenic species. The parent resin has macroporous structure. It has polystyrene matrix with divinylbenzene crosslinking. It is capable of operating under wide range of pH. Its porous structure offers good operating performance and reversible removal of particulates.

### Physical & Chemical characteristics:

|                     |                                |
|---------------------|--------------------------------|
| Appearance          | Spherical beads, Brownish grey |
| Particle size       | 0.3 – 1.2 mm                   |
| Functional group    | Sulphonic acid                 |
| Supplied ionic form | Iron/Na+                       |
| Approx shipping wt. | 720 – 770 g/L                  |
| Temperature limit   | 60 °C                          |
| pH range            | 0 to 14                        |

### Application and Bed features:

The bed of HIX-1 Nano 100 is required to be re-conditioned periodically/ intermittently once the capacity is depleted.

|                           |   |
|---------------------------|---|
| Recommended Contact time* | 1.5 – 4 min                                     |
| Service flow              | Intermittent/ Continuous                        |
| Operating pressure        | 20 – 75 psi                                     |
| Re-conditioning solution  | Sodium/Hydrogen/Ferric Chloride solution (2-8%) |

### Safety:

Acid or acidic solution used for re-conditioning of the resin are corrosive and these should be handled with proper care to avoid any contact with eye, skin or other parts of body.

\* To be selected carefully based on detailed water quality and intrinsic features of treatment process

**WIST Water Solutions Pvt. Ltd.**  
**Kolkata, India**

[mike@drinkwellsystems.com](mailto:mike@drinkwellsystems.com) | [www.drinkwellsystems.com](http://www.drinkwellsystems.com)