

ArsenX^{np} operating instructions

The **ArsenX^{np}** recommended application technology is a simple filtration through a bed or, better, two beds in series of this special ion exchange resin doped with nanoparticles of ferric hydroxide.

ArsenX^{np} does not release any hazardous product or by-product, it only removes by precipitation, filtration and ion exchange reactions specific elements such as arsenic, phosphate, vanadium, and uranium, etc., that are present in the water stream as oxyanions.

ArsenX^{np} is replaced after a single use or regenerated (preferably off-site) after a preset volume of water has been treated. The process is monitored through analytical determinations of the water exiting the first vessel in the treatment line. **ArsenX^{np}** is expected to deliver a potable water with an arsenic content much lower than 10 ppb.

The **ArsenX^{np}** recommended application system is a simple, traditional, ion exchange unit consisting of two or more ion exchange vessels that, normally, do not require any ancillary regeneration equipment, but only two ports to easily replace the arsenic loaded material with fresh or regenerated **ArsenX^{np}**.

The ion exchange unit components shall meet the requirements for structural materials that come in contact with water for human consumption. Purolite does not supply any structural material, but only the active component called **ArsenX^{np}**.

ArsenX^{np} does not require any specific maintenance, cleaning or disinfection except, sometimes, simple backwashes with water if influent suspended solids are not prefiltered adequately.

All suggestions and recommendations given above concerning the use of Purolite products are based on tests and data believed to be reliable. However, as Purolite cannot control the use of its products by others, no guarantee is either expressed or implied by any such suggestion or recommendation by Purolite nor is any information contained in this leaflet to be construed as a recommendation to infringe any patent currently valid.

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