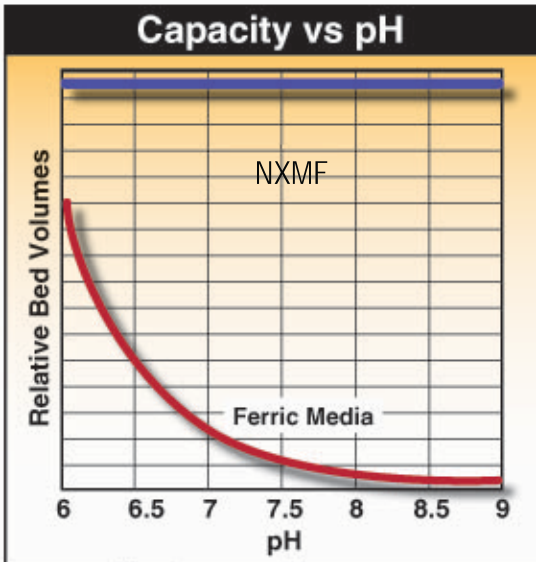


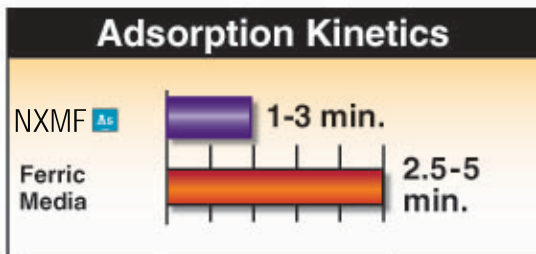
# NXMF



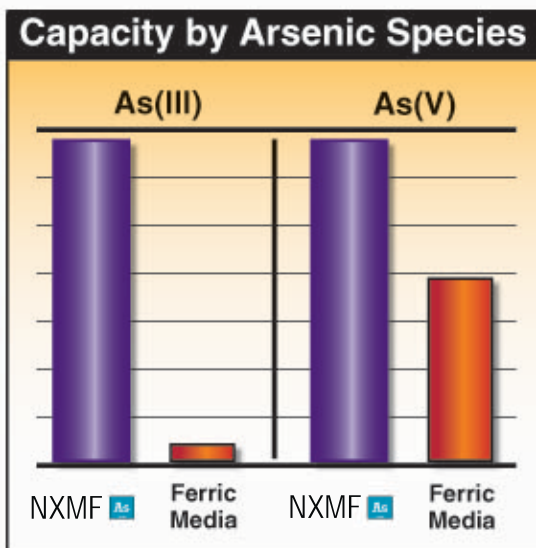
## Revolutionary Titanium based Arsenic removal media



NXMF As offers demonstrably superior capacity across a wide pH range and is not subject to chemical interference.



Shorter NXMF As contact time results in more cost effective systems with smaller footprint.



NXMF As is equally effective on both As(III) and As(V), eliminating the need for pre-oxidation.

### Introduction

NXMF As is a proprietary, next-generation Titanium based adsorbent media for the removal of arsenic from contaminated water supplies. Available in various granular and powder forms, NXMF As is suitable for applications including municipal water treatment, domestic POE and POU cartridges. NXMF As media offers superior performance across-the-board compared to the best ferric oxide/hydroxide based products and NXMF As is the *only* Titanium based granular Arsenic removal media available for immediate delivery.

### Features

- **Removes both As (III) and As (V)** to less than 10 ppb *without* chemicals, oxidants or regenerants.
- **Ultra-fast kinetics**, 65% void volume and hydrophilic surface allows, higher flow rates, smaller systems and extended service life.
- **No interference from water chemistry**. The performance and capacity is *not* affected by competing ions (chloride, silica, phosphate, sulfate), organics (NOM's, tannins) and pH like other Arsenic removal media.
- **No Arsenic laden wastewater** is generated when using NXMF As as is common to ion exchange and membrane processes.
- **Superior structural and hydraulic characteristics**. Sturdy, dry white porous granular or powdered media is no subject to the sludge and color producing degradation common to iron-based media.
- **Non-hazardous disposal**. Irreversible bonding with adsorbed contaminants results in an environmentally safe solid waste.
- **Infrequent backwashing** to minimize channeling and release particulates is the only maintenance required.

### Physical Properties

- Composition: Titanium based porous granules
- Size: 10x35 mesh (Municipal), 18x35 mesh (POE), 35x140 mesh (cartridges)
- Color: Off-White
- Void volume: 60-65%
- Moisture content: <20% (dry media- lower shipping costs)
- Bulk Density: 35 lbs per ft<sup>3</sup> (0.67 kg/L)
- Packaging: 120 liter drum (4.24 ft<sup>3</sup>) 81Kg (178lb)

### Water Chemistry & Performance Limitations

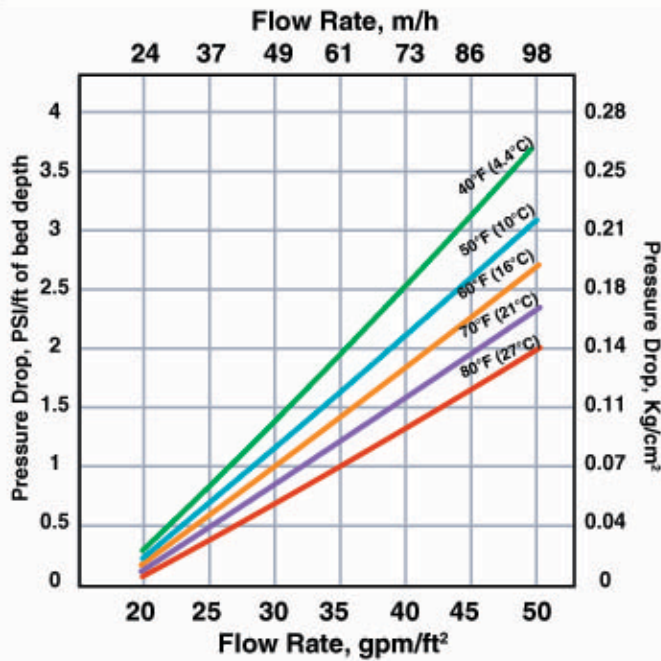
- Arsenic removal: up to 1000 ppb
- pH: 6.0 to 9.0
- Temperature: 41 to 120° F (4.5 to 54 C)

## Application Guidelines

Static Capacity Greater than 20 grams As/lb (44 mg/g) depending on influent concentration and contact time.

Contact time 60 seconds to 3 minutes depending on concentration and media mesh size.

## Pressure Loss vs. Flow



## Backwash Flow Required vs. Water Temperature

	80°F (27° C)	70°F (21° C)	60°F (16° C)	50°F (10° C)	40°F (4.5° C)
Flow gpm/ft <sup>2</sup>	17	15	13	11.3	9.5
Flow m/h	41.5	36.6	31.7	27.6	23.2

### Disclaimer:

The information contained in this document is believed to be accurate as of the date of publication. The performance data shown should be used for comparison purposes only. Performance must be confirmed by pilot testing under the intended operating conditions and water chemistry.

# NXMF

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