



## ADSORBSIA™ GTO™ Titanium Based Media

A Titanium Oxide Adsorbent for the removal of arsenic, lead and other heavy metals

### Typical Physical and Chemical Properties

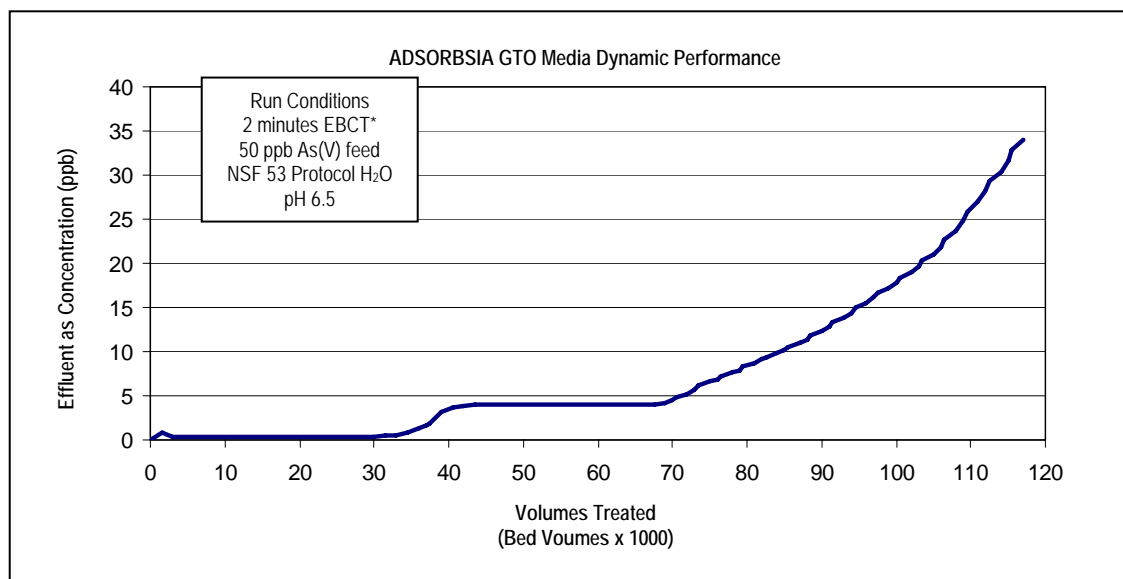
Product Type	Titanium oxide based granulation	
Particle size range	mesh	10-60
On 10 mesh	%	<5
Through 60 mesh	%	<10
Moisture Content	%	<15
Bulk Density	g/L	705
	lbs/ft <sup>3</sup>	44
Specific surface area	m <sup>2</sup> /g	200 - 300
Pore volume	cc/g	0.20 - 0.25
Equilibrium Capacity* (@ 50 ppb, pH 7)		
Arsenic (V)	g/Kg	12 - 15
Arsenic (III)	g/Kg	3 - 4
Selenite (IV)	g/Kg	10 - 11

\* Static equilibrium capacity is measured at room temperature in NSF Standard 53 challenge water.

### Typical Properties and Applications

ADSORBSIA™ GTO™ media is a granular titanium oxide with strong affinity for arsenic, lead and other heavy metals. This unique media is designed for non-regenerative applications. The inherently high adsorptive capacity of Dow's titanium oxide based technology has been formulated into a mechanically stable granulation suitable for use in a broad range of potable water applications. When exhausted, it is removed from the vessel and replaced with new media. Spent media from arsenic loading tests have been shown to pass both the TCLP and CA WET extraction protocols. ADSORBSIA GTO media is NSF/ANSI 61 certified without limitations.

Figure 1: Arsenic Breakthrough Curves



\* Empty Bed Contact Time

Figure 2: Backwash Expansion Data

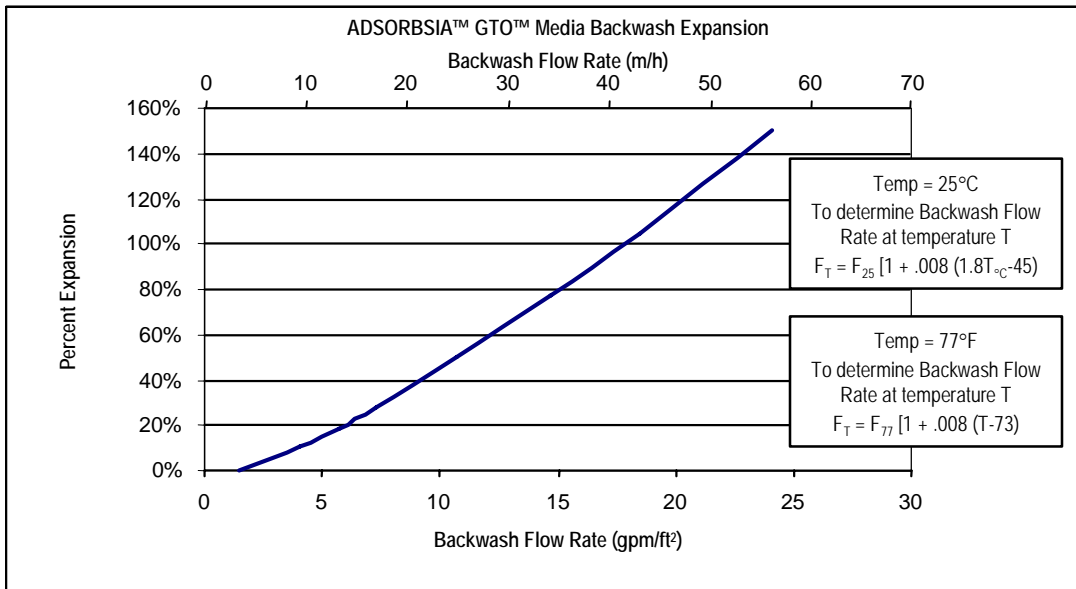
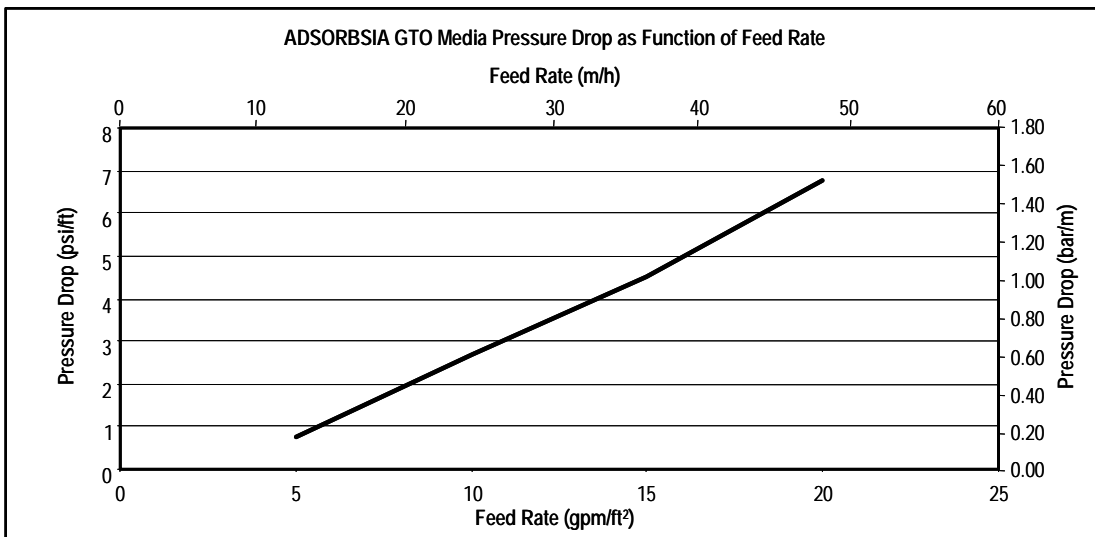


Figure 3: Pressure Drop as Function of Feed Rate



**ADSORBSIA™ Titanium-based Media**  
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Notice: No freedom from any patent owned by Seller or others is to be inferred. Spent media from arsenic loading tests have been shown to pass both the TCLP and CA WET extraction protocols. These test results indicate that spent media can meet the criteria for disposal in a landfill as non-hazardous waste. However, use conditions can vary and Customers must confirm that spent media meets their local landfill requirements for disposal as non-hazardous waste. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

