ADSORBSIA™ GTO™ Titanium Based Media

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

Typical Physical and Chemical Properties

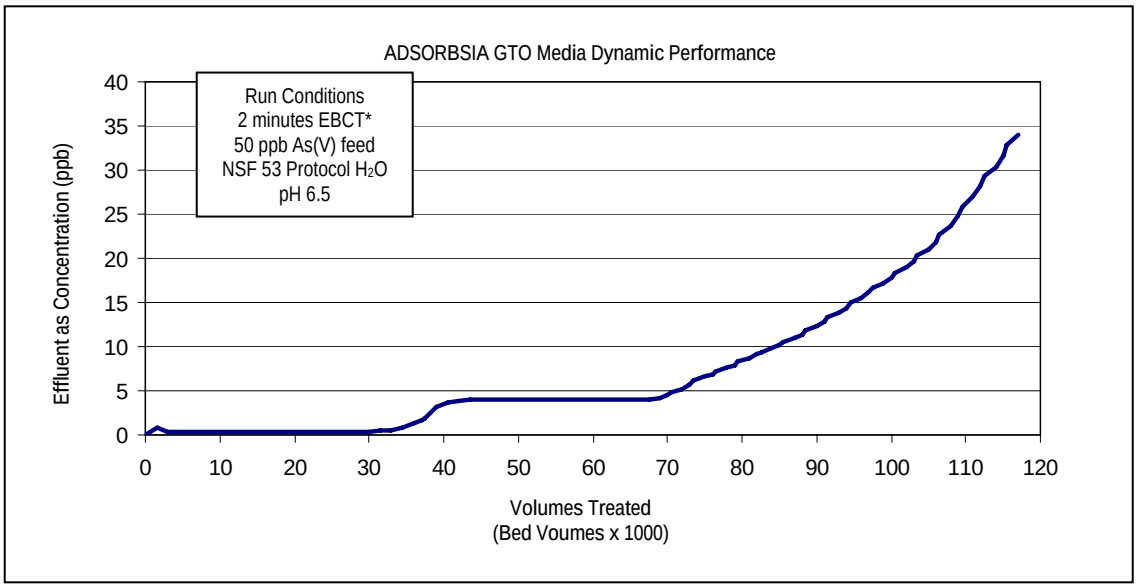
Product Type		Titanium oxide based granulation
Particle size range	mesh	10-60
On 10 mesh	%	<5
Through 60 mesh	%	<10
Moisture Content	%	<15
Bulk Density	g/L	705
	lbs/ft^3	44
Specific surface area	m^2/g	200 - 300
Pore volume	cc/g	0.20 - 0.25
Equilibrium Capacity* (@ 50 ppb, pH 7)		
Arsenic (V)	g/Kg	12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

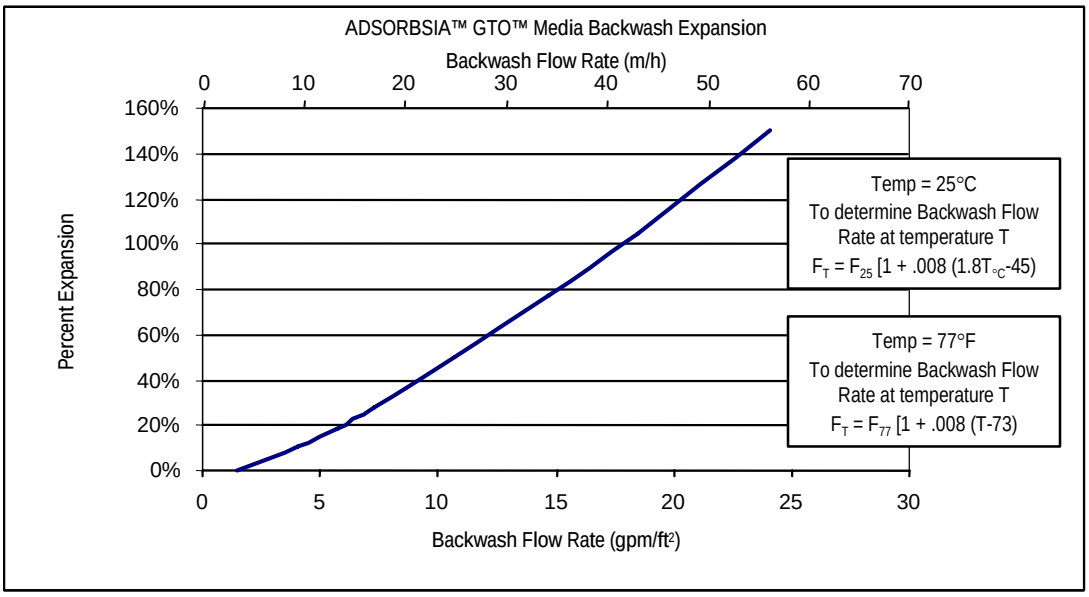
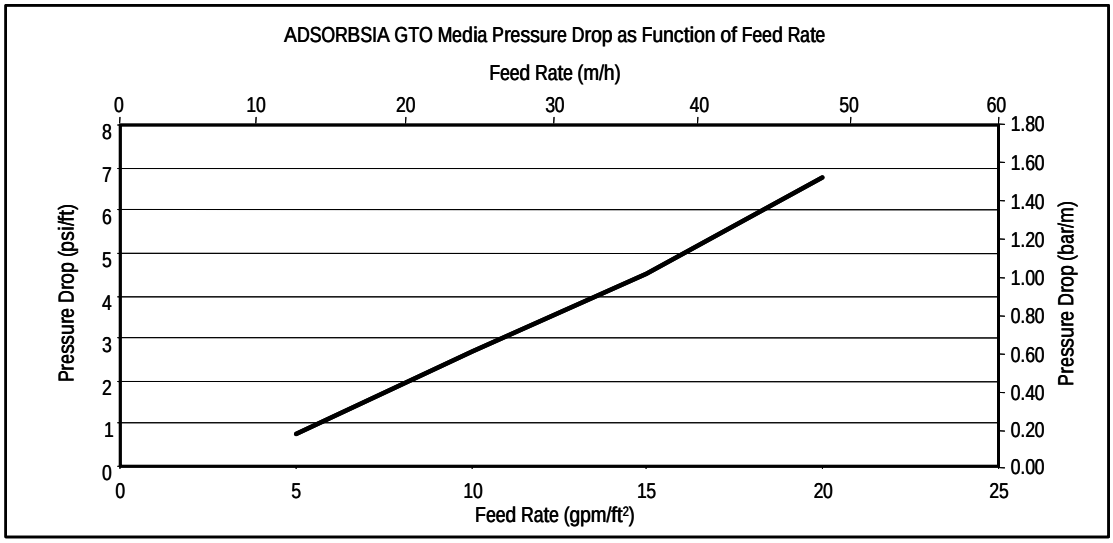


Figure 3: Pressure Drop as Function of Feed Rate



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For more information about ADSORBSIA, call the Dow Water Solutions business:

North America:	1-800-447-4369
Latin America:	(+55) 11-5188-9222
Europe:	(+32) 3-450-2240
Pacific:	+60 3 7958 3392
Japan:	+813 5460 2100
China:	+86 21 2301 9000

http://www.adsorbsia.com

Form No. 177-02044-0506