

HYPER-FILTRATION MEDIA



FOR INDUSTRIAL & POTABLE WATER TREATMENT SYSTEMS





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"When you need excellent water"

for INDUSTRIAL & POTABLE Water Treatment systems

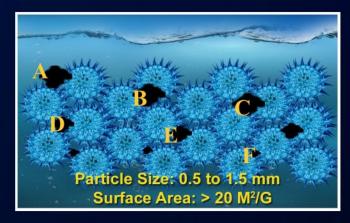
SAND/MULTIMEDIA 1st & 2nd Generation Filtration

- Suspended solids are mechanically strained with sedimentation and flocculation to 12-30 microns.
- 2 Filtrate often requires additional stages of filtration before it is suitable for use.

Jurbidex M 3rd Generation Filtration

- Suspended solids are mechanically strained with Sedimentation, Flocculation, Physical Absorption, Electrostatic Absorption and ion-exchange down to 3-5 microns.
- Quality of filtrate often reduces the need for additional down stream filtration.





PROCESS	TURBIDEX™	COMPETITION
A. Mechanical Straining	✓	√
B. Sedimentation	V	V
C. Flocculation	✓	√
D. Physical Absorption	V	
E. Electrostatic Absorption	V	
F. Ion-Exchange	V	

	TURBIDEX™	MULTIMEDIA	SAND
Pressure Filters *	15-20	12-15	8-12
Gravity Filters *	4-5	4	2-3
Micron Efficiency	3-5µ	12-15µ	25-30µ
Loading Factor	2.8X	1.5X	X

FLOW RATE gpm/ft²

OPERATING PARAMETERS

Bed depth: 30 - 48 inches Freeboard: 50% of bed depth Flow rate: 12 - 20 gpm/ ft² Backwash rate: 14 - 18 gpm/ ft² Replacement media ratio : 1:1

Turbidex[™] is Certified with



Standard 61

PHYSICAL CHARACTERISTICS

Color: off-White Bulk Density: 50 lbs./ft³ Surface area: 14 to 25 m²/g Mesh Size: 14 x 30 Uniformity Coefficient: 1.64

The Public Health & Safety Company™

The Benefits

Hyper Filtration Efficiency

With filtration efficiency in the 3 to 5 micron range, Tubidex's enhanced performance results in down stream cost savings for chemicals, filter cartridges, membrane cleaning, membrane life, etc.

Higher Flow Rates

With nominal service flow rates up to 15 gpm/ft² in pressure filters, Turbidex[™] allows significant savings in initial equipment costs when compared to traditional medias. Turbidex[™] allows for peak flow rates up to 20 gpm/FT² Turbidex

Superior Water Clarity

Traditional sediment filtration media rely on mechanical straining to remove suspended solids for turbidity reduction. Turbidex[™] filtration media incorporates straining as well as ion exchange, sedimentation and flocculation to produce crystal clear water down to <0.1 NTU of turbidity.

Water Savings

The loading capacity of Turbidex[™] media is up to 1.5 times greater than multi-media and up to 2.8 times greater than sand filters. This results in longer run times with less frequent backwashing, resulting in significant water savings.

Lightweight Media

Weighing 50-70% less than traditional medias, using Turbidex™ will result in substantial freight savings.

Easier to Inventory and Install

A single media versus multiple medias simplifies ordering, shipping and warehousing. Loading one media allows for a quick and easy installation.

Industries Using Turbidex™

Industrial Municipal Commercial Food & Beverage Water Recycle Aquaculture Agriculture Pharmaceutical Manufacturing Car wash

MATERIAL SAFETY DATA SHEET



Issue Date: March 1994	Revised: 08/	020/04	Revision No.
Section I. Product Ident	ification		
Product Name:	TURBIDEX™ Filter Granu	les	
Chemical Name	: Clinoptilolite Zeolite / Potass	ium, Calcium, Sodium A	Aluminosilicate, Hydrated
Formula:	1		
Formula:	$(K_{2}, Ca2, Na_{2}) O-Al_{2}O_{3}-105$	SIO ₂ -8H ₂ O	
CAS Registry:	12173-10-3		
Section II. Product Ingr	edients		
NAME	PERCENT	<u>r</u>	OSHA PEL and/or ACGIH TLV
Natural zeolite mineral GRAN			0.5 mg/m ³
Section III. Physical and	•	19	
	NG RANGE	Not applicable	
	ific gravity	2.2 – 2.4 Not emplicable	
	ensity (Air=1)	Not applicable Not applicable	
	atile weight		Not Applicable
	l Appearance		Off-white/green granules
Section IV. Fire and Exp	plosion Data		
	ity classification	Not Applicable	
	ash Point		Not Applicable
	ishing Media d Explosion Hazards		Not Applicable None
Section V. Health Hazar			None
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COASTAL WATER FILTERS, INC Tel. 239-398-0967 info@coastalwaterfilters.com www.coastalwaterfilters.com





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