

FOR INDUSTRIAL & POTABLE WATER TREATMENT SYSTEMS

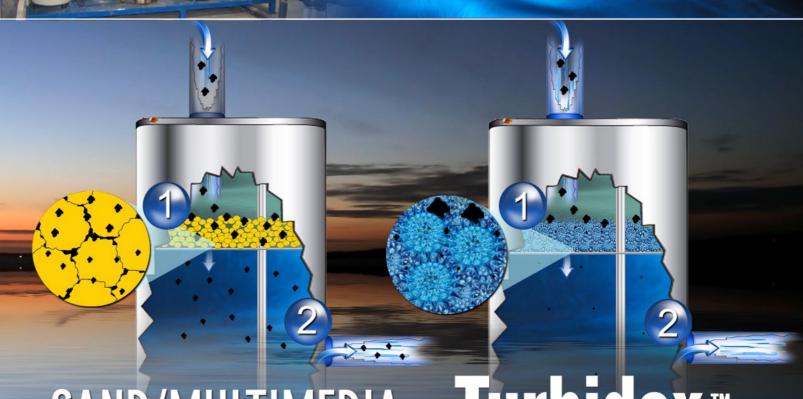




HYPER-FILTRATION MEDIA

"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.
- Filtrate often requires additional stages of filtration before it is suitable for use.

Turbidex •

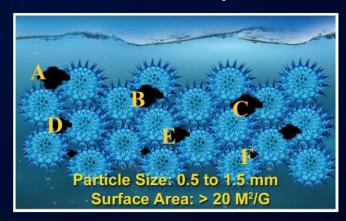
3rd Generation Filtration

- 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.

The Science



Vs. The Competition



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

	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	χ

^{*} 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

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

Turbidex™ is Certified with



The Public Health & Safety Company™

Standard 61

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, TurbidexTM allows significant savings in initial equipment costs when compared to traditional medias. TurbidexTM 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 $^{\text{TM}}$ 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		Davigad, 09	1020/04	Revision No.	
	L		Revision No.		
Section I. Product Identification					
Product Name:		DEX™Filter Granu			
Chemical Name:	: Clinoptil	olite Zeolite / Potass	sium, Calcium, Sodium	Aluminosilicate, Hydrated	
Formula:	(K _{2,} Ca	2, Na ₂) O-Al ₂ O ₃ -10	SiO ₂ -8H ₂ O		
CAS Registry:	12173-10)-3			
Section II. Product Ingre	edients				
NAME	T	PERCEN	<u>r</u>	OSHA PEL and/or ACGIH TLV	
Natural reality minural CD ANI	III DE	100			
Natural zeolite mineral GRANULES 100 Section III. Physical and Chemical Properties				0.5 mg/m ³	
-		ii Properties	<u> </u>	Marage Parkl	
BOILING RANGE specific gravity		Not applicable			
	oration Rate			2.2 – 2.4 Not applicable	
	ensity (Air=1)			Not applicable	
	atile weight			Not Applicable	
	Appearance	,		Off-white/green granules	
Section IV. Fire and Exp		nta		Commenter Branches	
-				No. A P M.	
	ity classificatio	on		Not Applicable	
	ish Point			Not Applicable	
	ishing Media			Not Applicable	
Unusual fire and Section V. Health Hazar		azards		None	
present in quantities of less than 0.01%. Medical conditions that may be aggravated Target organs		Pre-existing upper respiratory irritation and lung disease Lungs			
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	,,			Inhalation	
	health effects			Inhalation Transitory upper respiratory irritant.	
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