



Technical Datasheet : Katalox Light[®]

Composition of KATALOX LIGHT[®]:

Compounds	Typical value	Specifications
ZEOSORB (Naturally Mined)	85%	>85%
Manganese dioxide	10%	>9.5%
Hydrated Lime	5%	<5%

Physical Properties:

Appearance		Granular black beads
Odor		none
Mesh size	US	14 x 30
	SI	0.6 - 1.4 mm
Uniformity Coefficient		≤ 1.75
Bulk density	US	66 lb/ft ³
	SI	1060 kg/m ³
Moisture Content		<0.5% as shipped
Removal Capacity	for Fe ²⁺ alone	3000 mg/l 85000 mg/ft ³ (aprx)
	for Mn ²⁺ alone	1500 mg/l 42500 mg/ft ³ (aprx)
	for H ₂ S alone	500 mg/l 14000 mg/ft ³ (aprx)

Recommended System Operating Conditions:

Inlet water pH		5.8 - 10.5
Freeboard		25 - 35%
Min. Bed Depth	US	29.5 inches
	SI	75 cm
Optimal Bed. Depth	US	47 inches
	SI	120 cm
Service flow	US	6 - 12 gpm/ ft ²
	SI	15 - 30 m/h
Backwash velocity	US	8 - 10 gpm/ ft ²
	SI	20 - 25 m/h
Backwash time		5 -10 minutes
Rinse time		1 - 2 minutes

Regeneration/Dosing (optional*)

*Only if the water doesn't have sufficient oxygen to oxidize the contaminants. It also helps to clean the media surface better if used at the backwash

H ₂ O ₂	for 1.0 mg/l of	Fe ²⁺	0.9 mg/l
	for 1.0 mg/l of	Mn ²⁺	1.8 mg/l
	for 1.0 mg/l of	H ₂ S	4.5 mg/l
KMnO ₄ /Cl	for 1.0 mg/l of	Fe ²⁺	1.0 mg/l
	for 1.0 mg/l of	Mn ²⁺	2.0 mg/l
	for 1.0 mg/l of	H ₂ S	5.0 mg/l

Backwash Velocity [m/h] vs. Bed Expansion [%]:

