

# KATALOX-LIGHT COMPARISON CHART

	Katalox-Light®	Greensand Plus	Filter-OX
<b>Certification</b>	WQA Tested and Certified to NSF/ANSI/CAN Standard 61 and 372 Lead Free <a href="#">(Click here)</a>	WQA Tested and Certified to NSF/ANSI/CAN Standard 61	WQA Tested and Certified to NSF/ANSI/CAN Standard 61
<b>Turbidity</b>	Excellent	No	No
<b>Suspended Solids</b>	Excellent	No	No
<b>Iron</b>	Up to 100 mg/l	≥ 15 mg/l	No Data
<b>Manganese</b>	Up to 20 mg/l	No Data	No Data
<b>Arsenic</b>	Depends on Iron Content Fe:As ≥ 20:1	Depends on Iron Content Fe:As ≥ 20:1	No Data
<b>Active Ingredient (MSDS)</b>	Gamma Manganese Dioxide (MnO <sub>2</sub> ) ≥ 10% Zeosorb = 85% No Silica (SiO <sub>2</sub> )	Manganese Dioxide (MnO <sub>2</sub> ) = 3.2 - 4.8 % Quartz (SiO <sub>2</sub> ) = 90.4 - 93.6%	Manganese Dioxide (MnO <sub>2</sub> ) = 10 - 20% Quartz (SiO <sub>2</sub> ) = 55 - 85%
<b>Surface Area</b>	320 m <sup>2</sup> /gram	No Data	No Data
<b>Effective Particle Size</b>	Uniform Size (0.6 - 1.4 mm)	(0.25 - 1.0 mm)	(0.354 - 1.0 mm)
<b>Product Weight</b>	Light (1060 grams/liter)	Heavy (1,425 grams/liter)	Heavy (1,345 grams/liter)
<b>Shipping Weight</b>	66 lbs./ft <sup>3</sup> 30 kg/ft <sup>3</sup> (Light)	89 lbs./ft <sup>3</sup> 40 kg/ft <sup>3</sup> (Heavy)	84 lbs./ft <sup>3</sup> 38 kg/ft <sup>3</sup> (Heavy)
<b>Packaging</b>	1 ft <sup>3</sup> (28 .3 liters) /bag 40 bags (1,132 liters)/pallet	0.5 ft <sup>3</sup> (14 .1 liters) /bag 55 bags (779 liters)/pallet	0.5 ft <sup>3</sup> (14 .1 liters) /bag 48 bags (679 liters)/pallet
<b>Service Flow Rate</b>	4 - 12 gpm/ft <sup>2</sup> (10 - 30 m/h)	5 - 12 gpm/ft <sup>2</sup> (12.5 - 30 m/h)	2 - 12 gpm/ft <sup>2</sup> (5 - 30 m/h)
<b>Backwash Flow Rate</b>	10 - 12 gpm/ft <sup>2</sup> @ 55 °F (25 - 30 m/h)	12 gpm/ft <sup>2</sup> @ 55 °F (30 m/h)	12 gpm/ft <sup>2</sup> @ 55 °F (30 m/h)
<b>Initial Start Up</b>	Backwash approximately 20 minutes or until backwash water is clear as Katalox-Light is <a href="#">Absolute Dust-Free</a>	Requires minimum 4 hours Cl <sub>2</sub> regeneration	Cl <sub>2</sub> sterilization recommended but not required
<b>Regeneration Chemical</b>	No chemicals required	Intermittent or continuous feed using Cl <sub>2</sub> or O <sub>2</sub>	Intermittent or continuous feed using Cl <sub>2</sub> or O <sub>2</sub>
<b>Clean Filter Pressure drop @ 5 gpm/ft<sup>2</sup> / (12.5 m/h)</b>	0.8 psi per foot of bed depth	0.8 psi per foot of bed depth	0.8 psi per foot of bed depth
<b>Commercial System Larger than 36" Tanks</b>	Same as Above No Air/Water Scour Backwash	Air/Water Scour Backwash	Air/Water Scour Backwash
<b>Installation Allowed in California</b>	Yes	No	No
<b>Made in:</b>	Germany	Brazil	Ukraine

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## Advantages Of Katalox-Light<sup>®</sup>

**Katalox-Light<sup>®</sup>** is produced in **Germany** from **ZEOSORB<sup>®</sup>** as a raw material. **Katalox-Light<sup>®</sup>** the lightest, to **Greensand** and **Filter-OX**, the heaviest. The **Katalox-Light<sup>®</sup>** media is the only **catalytic media** with the highest surface area which removes **turbidity, suspended solids up to less than (< 3 microns)**.

The major advantage of **Katalox-Light<sup>®</sup>** is the slower head loss which leads to longer operation time. **Katalox-Light<sup>®</sup>** presents a **rough** and **high** surface characterized by a high number of pores and crevices. Accordingly, the structural and the texture is considerably different from **Greensand Plus** and **Filter-OX**. As a result, this allows slower head loss development, but at the same time causes higher pH and higher **removal of iron** and **manganese** without using any chemicals. Application of **Katalox-Light<sup>®</sup>** media can produce high-quality water without **iron, manganese, and turbidity**. Additionally, backwashing water demand is 60% less than **Greensand Plus** and **Filter-OX**.



## Katalox-Light<sup>®</sup> media is 100% Dust Free!

**Katalox-Light<sup>®</sup>** media is 100% **Dust-Free**. The **gamma manganese** is over 18.87 mg (Mn) and represents much more active sites for the adsorption and **Catalytic-Oxidation of iron and manganese**. As such, great performance of Mn(II) removal by **Katalox-Light<sup>®</sup>** can be easily obtained. An estimated **98 – 100% removal efficiency of Fe(II) and Mn(II)** can be achieved in a very short time with only 20 minutes of **backwash** and 5 minutes of **rinse** (25 minutes total).

**Gamma manganese dioxide** is used in the process to manufacture **Dust Free Katalox-Light<sup>®</sup>** media. It costs a lot less to use **Katalox-Light<sup>®</sup>** than to use all other media's, which needs to intermittent or continuous feed using **Chlorine (Cl<sub>2</sub>)** or **Potassium permanganate (KMnO<sub>4</sub>)**.

**Katalox-Light<sup>®</sup>** media is made in **Germany** and sold in 160 countries around the world for **industrial, commercial, residential, municipal, oil and gas industries**.



**KATALOX-LIGHT<sup>®</sup>** is a registered trademark of **Watch Water<sup>®</sup> Germany**.