

KATALYST - LIGHT COMPARISON TABLE

	Katalyst-Light®	Greensand Plus	Filter-OX
Certification	WQA Tested and Certified to NSF/ANSI/CAN Standard 61 and 372 Lead Free (Click here)	WQA Tested and Certified to NSF/ANSI/CAN Standard 61	WQA Tested and Certified to NSF/ANSI/CAN Standard 61
Turbidity	Excellent	No	No
Suspended Solids	Excellent	No	No
Iron	Up to 100 mg/l	≥ 15 mg/l	No Data
Manganese	Up to 20 mg/l	No Data	No Data
Arsenic	Depends on Iron Content Fe:As ≥ 20:1	Depends on Iron Content Fe:As ≥ 20:1	No Data
Active Ingredient (MSDS)	Gamma Manganese Dioxide (MnO ₂) ≥ 10% Zeosorb = 85% No Silica (SiO ₂)	Manganese Dioxide (MnO ₂) = 3.2 - 4.8 % Quartz (SiO ₂) = 90.4 - 93.6%	Manganese Dioxide (MnO ₂) = 10 - 20% Quartz (SiO ₂) = 55 - 85%
Surface Area	320 m ² /gram	No Data	No Data
Effective Particle Size	Uniform Size (0.6 - 1.4 mm)	(0.25 - 1.0 mm)	(0.354 - 1.0 mm)
Product Weight	Light (1060 grams/liter)	Heavy (1,425 grams/liter)	Heavy (1,345 grams/liter)
Shipping Weight	66 lbs./ft ³ 30 kg/ft ³ (Light)	89 lbs./ft ³ 40 kg/ft ³ (Heavy)	84 lbs./ft ³ 38 kg/ft ³ (Heavy)
Packaging	1 ft ³ (28 .3 liters) /bag 40 bags (1,132 liters)/pallet	0.5 ft ³ (14 .1 liters) /bag 55 bags (779 liters)/pallet	0.5 ft ³ (14 .1 liters) /bag 48 bags (679 liters)/pallet
Service Flow Rate	4 - 12 gpm/ft ² (10 - 30 m/h)	5 - 12 gpm/ft ² (12.5 - 30 m/h)	2 - 12 gpm/ft ² (5 - 30 m/h)
Backwash Flow Rate	10 - 12 gpm/ft ² @ 55 °F (25 - 30 m/h)	12 gpm/ft ² @ 55 °F (30 m/h)	12 gpm/ft ² @ 55 °F (30 m/h)
Initial Start Up	Backwash approximately 20 minutes or until backwash water is clear as Katalyst-Light is Absolute Dust-Free	Requires minimum 4 hours Cl ₂ regeneration	Cl ₂ sterilization recommended but not required
Regeneration Chemical	No chemicals required	Intermittent or continuous feed using Cl ₂ or O ₂	Intermittent or continuous feed using Cl ₂ or O ₂
Clean Filter Pressure drop @ 5 gpm/ft² / (12.5 m/h)	0.8 psi per foot of bed depth	0.8 psi per foot of bed depth	0.8 psi per foot of bed depth
Commercial System Larger than 36" Tanks	Same as Above No Air/Water Scour Backwash	Air/Water Scour Backwash	Air/Water Scour Backwash
Installation Allowed in California	Yes	No	No
Made in:	Germany	Brazil	Ukraine

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Advantages Of Katalyst-Light[®]

Katalyst-Light[®] is produced in **Germany** from **ZEOSORB[®]** as a raw material. **Katalyst-Light[®]** the lightest, to **Greensand** and **Filter-OX**, the heaviest. The **Katalyst-Light[®]** 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 **Katalyst-Light[®]** is the slower head loss which leads to longer operation time. **Katalyst-Light[®]** 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 **Katalyst-Light[®]** media can produce high-quality water without **iron, manganese, and turbidity**. Additionally, backwashing water demand is 60% less than **Greensand Plus** and **Filter-OX**.



Katalyst-Light[®] media is 100% Dust Free!

Katalyst-Light[®] 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 **Katalyst-Light[®]** 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[®]** media. It costs a lot less to use **Katalox-Light[®]** than to use all other media's, which needs to intermittent or continuous feed using **Chlorine (Cl₂)** or **Potassium permanganate (KMnO₄)**.

Katalyst-Light[®] media is made in **Germany** and sold in 160 countries around the world for **industrial, commercial, residential, municipal, oil and gas industries**.



Katalyst-LIGHT[®] is a registered trademark of **Watch Water[®] Germany**.