

WHY USE?

KATALOX – LIGHT COST BENEFITS

Katalox-Light[®] is the **Best Available Technology (BAT)** as the filter media of the future and has much more to offer.

Filtration Why should you use Katalox-Light[®] instead of any sand products?

- **Better Filtration (3 microns)**, means crystal clear water
- Leading Water treatment system manufacturers recognize this benefits and have chosen to promote this unique Katalox Light media.
- Removal of Hydrogen sulfide – better drinking water comfort – no odor – bad taste – no more irritation to skin and eyes
- Because of its very high surface area, the backwash rate is very less as well as the frequency of backwash – therefore **saving water up to 50%** than conventional products

Weight

How much Katalox-Light[®] do you need?

- **Katalox-Light**[®] has a higher surface thus lower bulk and true density than medias based on Sand, hence you require 65% by weight of the Sand-based products and this will very depending on the size of the water-treatment systems.

Example: 30 kg (66 lb.) bag of **KL** is equivalent to volume of 28.3 liters (1 ft³) where sand products are 20 kg (44 lb.) in volume for 14.15 liters (½ ft³)

		Volume	Weight
1 bag of Katalox-Light [®] (KL)	=	28.3 liters	30 kg (66 lb.)
1 bag of Greensand Plus (GSP)	=	14.15 liters	20 kg (44 lb.)

Example: For requirement of,
1000 liters of filter media you need **35.3 bags** (each 30 kg) of **KL**
Vs.
1000 liters of filter media you need **70.7 bags** (each 20 kg) of **GSP**

And here's the difference in weight:

1000 liters of GSP	=	1413.4 kg	(3116 lb.)
1000 liters of KL	=	1059.0 kg	(2335 lb.)
Difference	=	354.4 kg	(781 lb.)

-and this is paid for higher transport cost

- Higher the bulk density, higher the weight per volume of the media and higher the transport cost !

Example with a filter design:

All pressure vessels have a standard size, e.g. let's take 24x69 and specify the amount of Filter-media required:

Typical 24x69 Pressure Vessel has a volume of 450 liters

If one wants to design a system with this pressure vessel model according to Greensand Plus's specification with 50% freeboard (225 liters of media fill),

GSP bags needed = 225 liters / 14.15 liters/bag = **16 bags** (exact value 15.9 bags)

KL bags needed = 225 liters / 28.3 liters/bag = **8 bags** (exact value 7.95 bags)

...and 80 kg (176.37 lb.) extra weight for transportation for GSP

Why Katalox-Light® has better performance?

Contact time Why and how you can have high contact time in Pressure Vessel?

Tests carried out by all universities in the world has proved that **Media Filters** designed with higher depth and with less freeboard can filter out contaminants down to less than 2 to 3 microns.

This compares with,

50% freeboard with **sand media** providing **50 micron filtration**

Vs

30% freeboard with **Katalox-Light®** filters providing **2-3 micron filtration**

Katalox-Light® removes heavy metals and potentially harmful silica compounds.

Katalox-Light® is **Made in Germany** like Mercedes, Porsche, BMW or Audi – with strict quality control and it is NSF certified.