

A non-hydrous silicon dioxide media, to be used as a highly efficient filter media for the reduction of suspended matter

Clack Filter-Ag has many outstanding advantages over the more common granular filter medias used for suspended solids reduction. Its fractured edges and irregular surface provides a high surface area and complex flow path for efficient removal of suspended matter through out the filter bed, typically reducing suspended solids down to the 20-40 micron range. Filter-Ag's larger particle size creates less pressure loss through the filter and allows deeper sediment penetration into the bed for higher sediment loading and longer filter runs. This large and irregular shape prevents the screening and caking of sediment in the top several inches of the filter bed as happens in the typical sand filter, thus preventing a rapid build up of headloss and blinding problems. Filter-Ag's light weight means lower backwash rates and better bed expansion to release trapped sediment and rinse the filter media during the backwash cycle. This ideal combination of particle shape, size and density make it a good choice where quality water filtration and water conservation are important.

Although not intended to be an iron reduction media, extensive field experience has shown Filter-Ag's rough and jagged surface to be very good at entrapping the fragile iron floc that forms after dissolved iron has been oxidized. The fragmented edges are apparently good floc collection points for the precipitated iron. Typical oxidation methods include aeration, ozonation and chlorination.

Substantial savings can be realized when designing a system using Clack Filter-Ag. Its low pressure drop, high service flow rates and high bed loadings combined with lower backwash rates allow economy in equipment downsizing and reduced pumping requirements. Its light apparent density also saves on handling expense and shipping costs.

Clack Filter-Ag can be applied to systems designed for either pressure or gravity flow. Because of its unique density, Filter-Ag can also be used in multi-media (graded density) filter designs allowing a more flexible approach to difficult filtration problems.



ADVANTAGES

- There is less pressure loss through a bed of Filter-Ag than through most other filter medias
- Light weight requires lower backwash rates than those required for other filter medias
- High service rates result in lower equipment costs and a savings in space
- High sediment reduction capacity results in longer filter runs, with a substantial savings in backwash water and time out of service
- Reduced shipping cost due to light weight/cu. ft.
- Replacement of sand with Filter-Ag in existing installations may increase filter capacity 100% or more. (Caution should be taken upon start-up that the lightweight Filter-Ag is not washed to drain.)

PHYSICAL PROPERTIES

- | | |
|------------------------|-------------------------------|
| ■ Color: | Light grey to near white |
| ■ Bulk Density: | 0,4 – 0,45 kg/dm ³ |
| ■ Specific Gravity: | 2.25 gm/cc |
| ■ Mesh Size: | 0,4 – 0,45 mm |
| ■ Effective Size::: | 0.67 mm |
| ■ Uniform Coefficient: | 1.8 |
| ■ Hardness: | 6 (Mohs scale) |

CONDITIONS FOR OPERATION

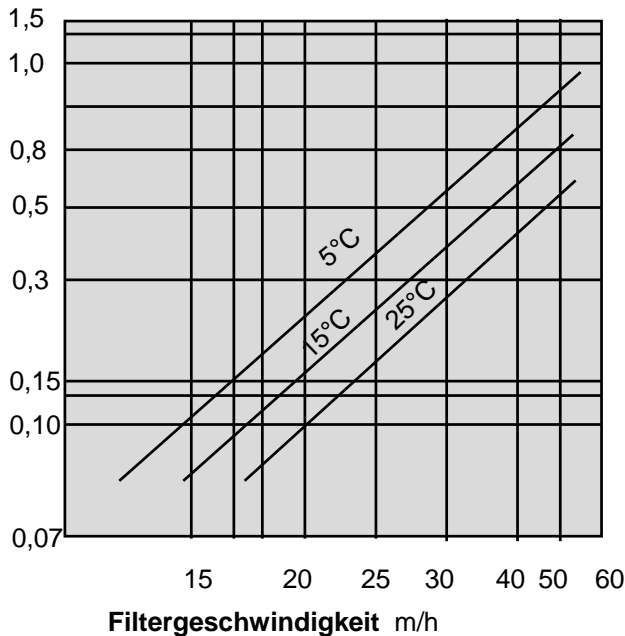
- Water pH range: wide range
- Maximum water temperature: 140°F/60°C
- Bed depth: 600 – 900 mm
- Freeboard: 50% of bed depth (min.)
- Service flow rate: 12 m/h,
- although considerably higher rates are often used
- Backwash flow expansion: 20-40% of bed depth
- Upon installation allow bed to soak overnight before backwashing

Filter-Ag[®]

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Druckverlust

bar / m Schichthöhe



Bettexpansion in %



MTM[®] ist ein geschütztes Produkt der CLACK Corporation
WS / USA

MTM[®] ist Zertifiziert nach ANSI / NSF Standard 61 und nach
UL als Trinkwasseraufbereitungskomponente in Bezug auf
ANSI/NSF 61-(1991)-57Y3

Packing : 28,3 Liter (1 ft³) Säcke

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