

Granular Media-Sand**Product Coding**
P4301XXXXX**Introduction**

Sand filter media is a naturally occurring granular material widely used for water purification, sediment removal, and pre-filtration.

With a balanced grain size distribution and high mechanical stability, sand provides reliable removal of turbidity, suspended solids, silt, clay, and organic particles.

It is the primary filtration layer in multimedia filters, municipal water treatment plants, industrial systems, and pool filtration units.

Features

- Excellent turbidity removal
- High dirt loading capacity
- Resistant to chemical degradation
- Long service life under repeated backwash cycles
- Cost effective and widely available
- Suitable as a stand-alone or base layer
- Uniform grain distribution available in multiple grades (0.5-2.0 mm)

Sand Media Classification**Rapid sand filter:**

Rapid sand filter, with filtration rates ranging from 5-7.5 m/h, usually uses medium sized sand (0.5 mm).

Slow sand filter:

Slow sand filter is a primary example of an ungraded bed. Because slow sand filters are not backwashed, no hydraulic grading of the media occurs. Distribution of the various grain sizes in the bed is essentially random.

Typical slow sand filter beds contain 0.6 to 1.2 m of sand with a sized sand of 0.15 to 0.35 mm.

Diatomaceous earth filter (DE):

Diatomaceous earth is a very good filtration media and filter aid. Diatoms have a large variation in shapes and they have a honeycomb structure. Because the pores between the cell walls are very small, it is easy to trap clay particles, bacteria and other suspended solids from liquids. Another advantage of the small diatoms is the irregular packing, this creates a complex matrix with a very high porosity. It allows the filter media to remove very small particles and it extends the flow rate.

Applications

- Drinking water treatment plants
- Industrial process water
- Cooling tower filters
- Swimming pool filters
- Wastewater polishing systems
- Pre-filtration before RO (reverse osmosis), and cartridge systems



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