

BIRM



FILTRATION

IRON REMOVAL

- BIRM is a granular filter medium used for the reduction of iron and manganese dissolved in water. Normally the iron is in the form of ferrous bicarbonate in solution ; BIRM acts as a catalyst and increases the reaction oxidation so that the ferrous compounds are transformed into ferric hydroxide which precipitates and can be easily filtered.
- The physical characteristics of the BIRM are those of an excellent means filter which can be regenerated by simple backwashing.
- BIRM is not consumed during iron removal.
- Essential conditions for good BIRM effectiveness:
 - no oils and hydrogen sulfide in the water to be treated,
 - pH 6.8-9.0 (if there is also manganese the pH must be 8.0-8.5),
 - dissolved oxygen minimum 15% of the iron value,
 - alkalinity at least double the total sulphates and chlorides.
- Warning: chlorination reduces the effectiveness of BIRM.



- Black color
- Specific weight: 2000 gr/lit
- Bulk weight: 700-800 gr/lit
- Dimensions: 0.6 mm

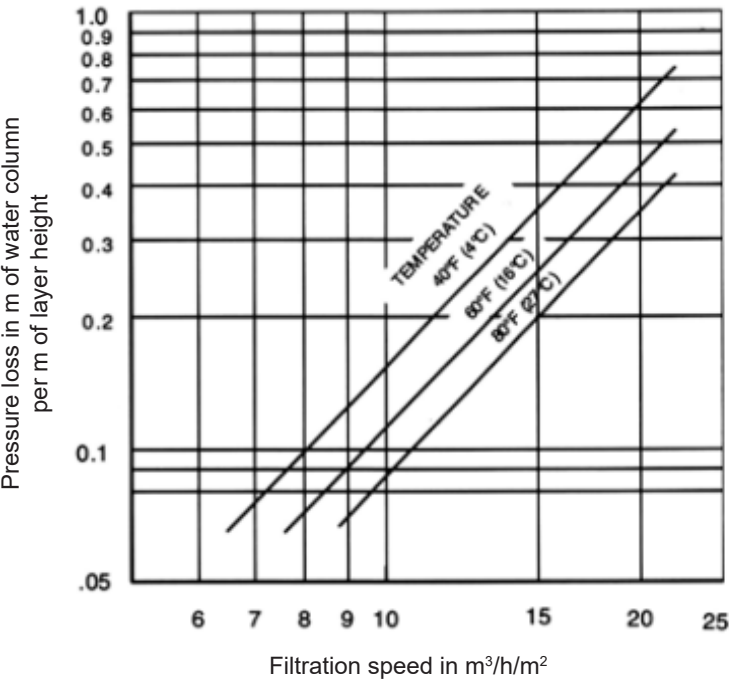
APPLICATIONS

- Iron removal and demanganization of supply water.
- Drinking water.
- Industrial waters.
- Pretreatment of reverse osmosis units or ion exchange resins.

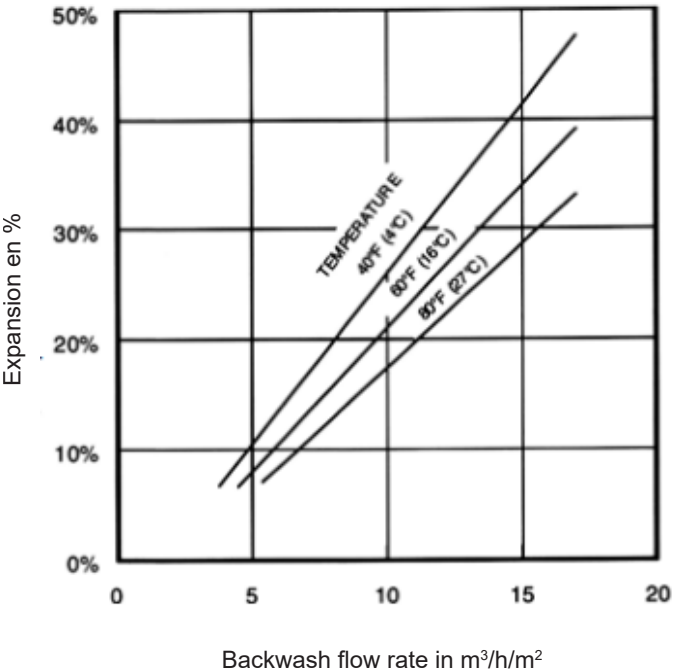
TERMS OF SERVICE

Layer Height	750-900 mm
Service Flow	9-13 m³/h/m²
Backwash flow	24-30 m³/h/m²
Backwash expansion	20-40 %

LOAD LOSS



EXPANSION IN CLEARANCE



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