# MANOX
## Filter Media

**Manox is a granular water filtration media used for the removal of arsenic, iron and manganese. Through a natural chemical reaction, Manox has the ability to help you produce clean, high-quality water.**
**Manox works because of a catalyst reaction whereby iron and manganese are oxidized on the media.**
**Daily backwashing then flushes trapped particulate from the filter bed.**

### Applications:

Filtermedia for catalytic removal of dissolved iron, manganese and arsenic with the following advantages

- **passes its activity on to the surrounding sand grains,**
- **does not require ideal pH environment,**
- **does not require regeneration by $KMnO_4$.**

### Conditions for Operation:

pH : 6.5-9.0
Bed Design : Suggested 100 cm sand and 10 – 40 cm Manox.
Dependent on application and water quality.
Freeboard : 40% of bed depth (min.)
Service flow rate : 10 – 15 m/h
Backwash flow rate : 40 m/h

### Packaging:

25 kg bags.

| **Chemical analysis** (Average) |
|---|
| $MnO_2$ mass-% 75 |
| $Fe_2O_3$ mass-% 6.8 |
| $SiO_2$ mass-% 4.6 |
| $Al_2O_3$ mass-% 2.5 |
| Moisture mass-% < 1 |

| **Physical characteristics** (Average) |
|---|
| Density g/cm3 3.6 |
| Bulk density kg/m3 2000 |
| Shape irregular |
| Colour dark brown to black |
| Sizes available 0.5-1.6 mm |