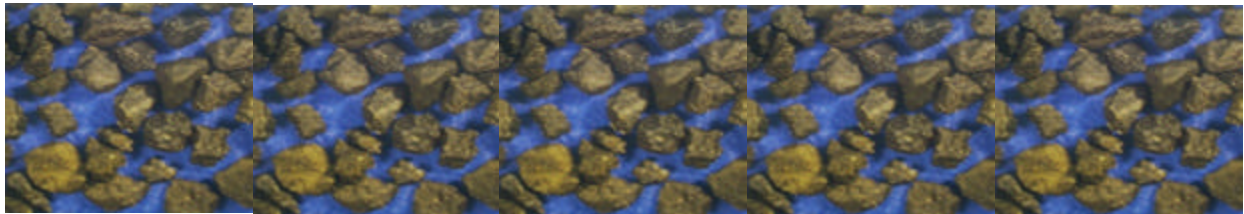


UNIMEX WATER SOLUTIONS & TECHNOLOGIES YOUR GATEWAY TO CLEAN WATER TREATMENT

Fero-lite™ for clean drinking water



UNIMEX is dedicated to innovation and rapid development of complete clean water solutions for many applications for tap water, ground water, and surface water. Unimex is proud to introduce our latest solution based on **Fero-lite™** technology for cleaning water treatment.

Fero-lite™ is a naturally occurring ore which serves as a catalytic filter media in the removal of iron, hydrogen sulfide, arsenic and manganese.

Fero-lite™ water solutions can remove heavy metals including Iron, Manganese, and Arsenic from ground water for many applications such as household water, clean drinking water and event bottled water.

Advantages: **Fero-lite™** is used for removing iron, hydrogen sulphide, arsenic and manganese from water supplies. It is a filter media that utilizes an oxidation-reduction reaction and filtration process at a very high level of performance (up to 60 folds of the filtration tank). **Fero-lite™** contains 80% manganese dioxide in an extremely unique cluster format for enhanced performance and maximized capacity.



Stenløse Center 83
DK-3660 - Stenløse
Denmark



Fax: +45 47 17 22 55
E-mail: unimex@unimex.dk
www.unimex.dk

Fero-lite™

Physical Characteristics:

Color.....gray-black
Physical Form.....granular
Active Ingredient.....75% - 85% Manganese Dioxide
Screen Size.....1,2 to 4,0 mm
Odor and Taste.....none
Standard Package.....25 kg/bag
Life Expectancyessentially unlimited for low contaminant concentrations

Conditions for Operation:

Service Flow18m/hour
Free Board..... 30% - 50%
Bed depth:..... 50 cm minimum
Recommended Backwash10m/hour
pH.....5.0 - 9.0 (6.5 - 8.5 Recommended for bed stability)

Removal Capacity (at Exhaustion)

Iron.....27 ppm
Hydrogen Sulphide.....17 ppm
Manganese.....11 ppm
Arsenic..... 20 ppm

How does Fero-lite™ work?

The feed water will be run through a mixing tank containing Fero-lite™ filter media and injected air. Fero-lite™ is the naturally occurring ore that has been properly screened and sized. Iron and Manganese, Arsenic and other metallic contaminants will be removed from water by Fero-lite™ filtration media which encourages reaction between the contaminant and oxygen present in water by air injector or Chlorine as oxidation substance. This reaction forms an insoluble precipitate which can then be physically filtered out by the media bed. The media acts "catalytic ally", which means that although it triggers the reaction it is not used up as part of the process, thus giving long life from a single filter.

Unimex Engineering A/S design special type of stainless steel tank which is easy to install and operate. Customer can also choose Fibre-glass or Polyamid tank for similar application.



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