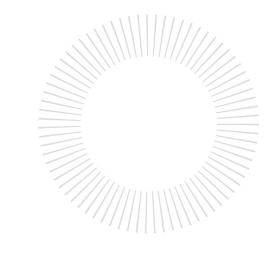


Envioneer has developed the electropositive charged filter by the innovative and unique technology through its R&D over 10 years. Its efficiency is verified by the Korean and international water purifier companies & testing laboratories. Now, it is expanding the field of usage. Electropositive charged filter has an excellent removal efficiency for pathogenic microorganism such as virus and bacteria in the water. It can be used for outdoor products as well as water purifiers and poor water conditions because it can purify the water by the natural pressure without using motor. This technology is very eco-friendly because it does not waste water to get the clean water. Also this is human-friendly technology by passing the minerals & removing the pollutants in the water. Envioneer with its motto "your partner for clean & green life", its electropositive charged filter can be easily coworked with other filters so it can make more business opportunities in water purification fields. Also it can purify water for improving health and protecting the environment.





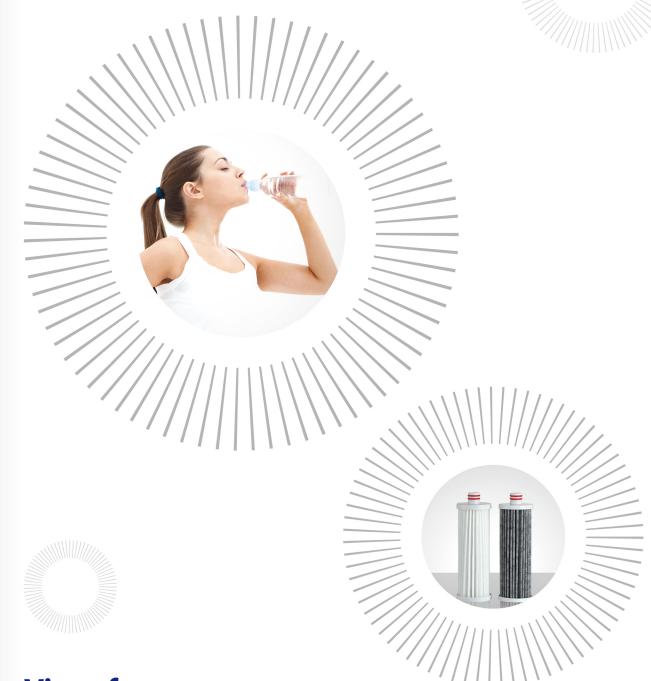
Headquarter

604, 158, Jeongjail-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea **T** 82-31-716-3670 **F** 82-31-726-3673 **H** www.envioneer.com

Factory

85, Hanbang Expo-ro, Jecheon-si, Chungcheongbuk-do, Korea **T** 82-43-644-3670 **F** 82-43-644-3607





Virus-free Electropositive Charged Filter

NANOPURE-Plus®

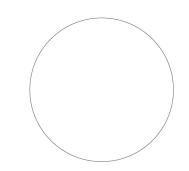
Usable with natural pressure Make of human friendly water

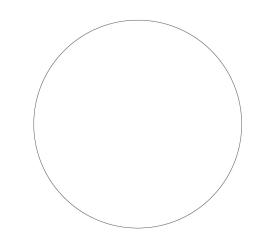




NANOPURE-Plus®

NANOPURE-Plus®, Envioneer's electropositive charge filter, is an innovative & newly developed technology to remove submicron particulates effectively in the water. Electropositive charge filter is a water purification filter which can remove more smaller particles than pore size by adding the electropositive charge on the surface of media and inside its pore. In the water, there are pathogenic microorganisms such as virus, these are the reasons of water borne diseases and damage people's health. Electropositive charge filter is a micro filter having 0.6 - 0.8 µm mean pore size but it can remove 20 – 50nm sized virus having (-) charge in the water by using (+)charge at 99.999%.





- ► Electropositive technology not mechanical filtration
- ▶ Patented technology providing submicron filtration efficiency
- ► Making human-friendly water
- ► Ordinary tap water pressure (2kg/cm²)
- ▶ Nonwoven filter media with various grades of pore sizes
- ▶ Removing wide range of organic and inorganic materials
- ▶ Various pore size grade filter media available
- ▶ Providing the platform for new filter devices for water filtration

[X3,000]

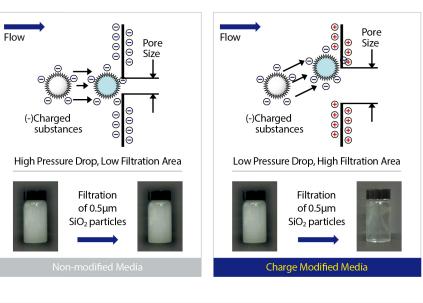
▶ High filtration efficiency and low pressure drop at high flow rate

- ► Removal of virus and bacteria (Over 5 log Norovirus removal efficiency)
- ▶ Possible with the natural pressure without motor pressure
- ► Usable at all household water applications
- ▶ Providing the platform for new filter devices with smaller, less expensive and highly efficient
- ▶ Manufacturing of various types of filter assembly such as wounding and pleated types

Electropositive Charge Technology •

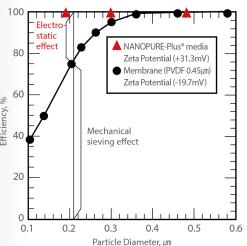


| Mechanism of electropositive charge |



Almost all pollutants including virus & bacteria have the electronegative (-) charge in the water. Electropositive (+) charged media collects the (-)charge pollutants by electrostatic force on the surface of media and inside pore by coating the media fiber with cationic polymer binder resins.

Zeta potential shows the value(mV) of electropositive charge on the media. NANOPURE-Plus products shows the zeta potential about +30mV.



I Effect of electropositive charge I

- ▶ Particles are filtered by the mechanical sieving effect if they are bigger than the pore size. On the other hand, it maximizes the filtration efficiency by the electrostatic effect.
- ▶ With the effect of electropositive charge, it has very high filtration efficiency and low pressure drop at high flow rate.

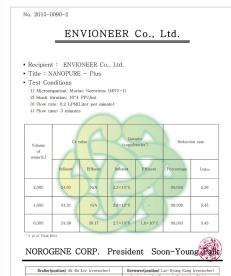
Application & Performance



| Application |

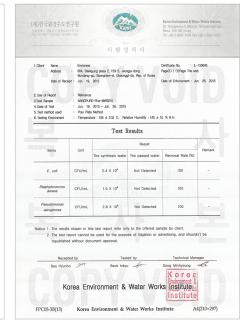
- ► Food & Beverage
- ► Water purifier & Bottle water
- ▶ Pharmaceutical & Biomedical
- ▶ Power generation
- ► Micro-electronics
- ► Fine chemicals
- ▶ Pre or complex filtration with RO & UF (Reverse osmosis, Ultrafiltration)

▶ Virus test



Tel. (02) 2258 - 7345 Homepage http://

► Bacteria test



roduct safety data

► NSF certification



▶ Rohs test

