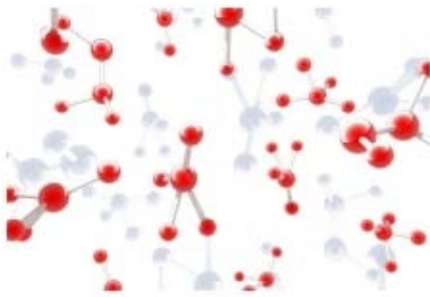


## More on Negative Ions

"Negative ions have been proven to improve your health and well being..."

All living things in the world are related to 'anions' (or negative ions).



Under normal circumstances, the air molecules or atoms are neutral. Due to natural ionization caused by cosmic rays, ultraviolet rays, micro radiation, lightning and thunder etc., some air molecules will lose some electrons that were orbiting around the nucleus and these free electrons with negative charge will combine with other neutral air molecules to make them negatively charged. These are the negative ions in the air. They are colourless, odourless and have strong absorption capability to absorb micro particles in the air to remove dust and bacteria.

Anions in the air are as important as vitamins in the food and are given such nice names as 'air vitamin', 'longevity element', 'air scavenger' etc.

**Anions have special significance to human health.** Their effects should not be underestimated. They can have extraordinary absorption capability to gather the dust particles, bacteria and virus which are normally of positive charge and neutralize them. They can enter the cells of the bacteria to kill off the bacteria. More anions in the air would mean fewer bacteria and when the concentration of anions reaches a certain level, the number of bacteria would be reduced to zero.

The number of anions in a cubic centimeter (cc) of air is 40 to 50 in the urban residential area, 100 to 200 above the urban area, 700 to 1,000 in the field and more than 5,000 in the valley. The number of anions in the air can impact on human health. If the air has too high a content of positive ions and too few anions, then the human body may develop symptoms such as fatigue, dizziness, migraine, depression and shortness of breath, but these could be rapidly relieved if air with 1,200 anions per cc is taken in by the body. If the anion content of indoor air is raised to 1,500 per cc, it can improve the mood of those who stay in the room so that they can work better with higher efficiency. Therefore, anion content is an essential factor for human health and longevity.

The World Health Organization (WHO) has specified that the anion content in the air should not be lower than 1,000 per cc. In certain types of environment (such as the mountainous area), the inhabitants are free from troubles of inflammation and generally live longer. This is obviously related to the fact that the air there contains abundant anions.

The positive effects of anions in the field of medical healthcare have in recent years attracted extensive attention worldwide. After many years of research, Winalite Technology Co. Limited of Shenzhen had successfully developed the healthcare sanitary towel to turn this ordinary product into one with high value added and high-tech content, making it possible to be granted national patents.

The anionic tape in the 'Love Moon' sanitary towel can emit 6,070 anions per cc to effectively inhibit the survival and duplication of bacteria and virus, which are the causes of vaginitis. Almost all types of female genital inflammation are caused by anaerobic bacteria. When the anionic tape in the 'Love Moon' sanitary towel emits a high density of anions, it also produces abundant ionized oxygen to fundamentally change the anaerobic environment, promote biological enzymatic transformation and balance the acidity and alkalinity. At the same time, under normal temperature, it can emit a biological magnetic wave of wavelength 4 to 14 micron at more than 90% emission rate which is beneficial to the human body as it can activate the water molecules in the cells to make them exist at high energy levels suitable for synthesis of biological enzymes. This is therefore a purely physical process to achieve the antibacterial and deodorization functions, to care for the woman's health through technology and to benefit all women.

### **Test methods for anions:**

There are two types of method to test for anions: the 'dynamic tests' and 'static tests'. For the anionic tape produced by Winalite International, the density of the anions it emits has to be ascertained using the dynamic test. At the time of designing the patent technology, the 'Wave Model' method of anion production was adopted in consideration of the woman's physical characteristics and the product usage.

Under this model, anions are produced through friction. The nation's authority in tests and assessments, the Shanghai Textile Industry Technical Supervisory Institute, has conducted many rounds of dynamic tests on the anionic sanitary towels from Winalite International and proved that the anions emitted can reach 6.070 per cc, indicating that the actual effect from the use of the product had complied with the test standard.

Another type of test method is the static test. This involves using a piece of equipment to detect the rays produced by the material (this way of anion production is called 'Beam Model') and indirectly reflect the anion production capacity. This method is used for accurate tests on solids such as mineral rocks. For the same reason, the anion contents at the beach, in the forest and among the mountains cannot be tested by using the static method.