



A.I. System Products Corp.

GE-100

Electrolized Deoxidized and Ionized Water GE-100

Patented

Ionized water generated by repeated sol-gel based on the vibration of the proprietary patented process.

TRADE NAME : ELECTROLIZED DEOXIDIZED AND IONIZED WATER GE-100

INCI NAME: Water•Sodium Magnesium Silicate•Disodium Phosphate

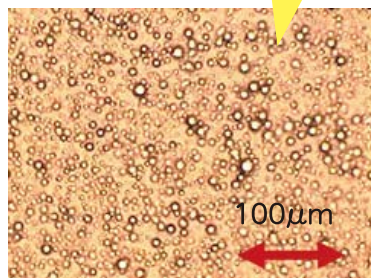
GE-100 features

- ◆ Turns into liquid form after being subjected to vibration, and returns to the gel form after approximately 10 seconds.
- ◆ Can uniformly mix liquids and powders that cannot mix with water until now.
- ◆ Nebulization using a spray is possible in the gel state.
- ◆ No need for surfactant or preservatives.

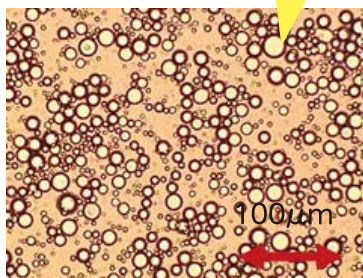
Surfactant-free

Oil can be mixed without using a surfactant, achieving surfactant-free condition.

When normal surfactant is used



When only GE-100 is used, without surfactant included

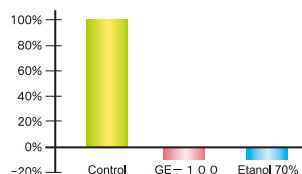


Preservative-free

Even alkaliphilic bacteria that are comfortable with alkaline conditions can survive only at pH10.5 or lower, and bacterial growth is impossible under the alkaline GE-100 environment that indicates pH11.0 or higher. And also as it becomes acidulous instantly upon touching the skin, it will not stimulate the skin.

➔ Achieves preservative-free condition.

Antibacterial effect



Using staphylococcus aureus test bacteria. The bacterial solution was adjusted to an optical density of 1. Mixed 100µL of fungus liquid with 1mL of test solution, and added the 100µL to 10mL of culture medium and performed culture for 16 hours. Antimicrobial evaluation was performed by comparison with other test solutions with the growth of saline control as 100%.

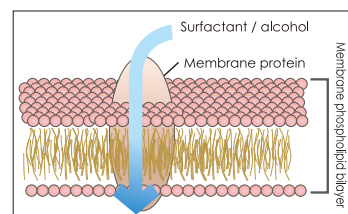
Test results

Has an antibacterial capability equivalent to the 70% ethanol used for sterilization.

GE-100 safety

Depending on the mixture amount, surfactant denatures and dissolves the cell membrane, resulting in hemolysis through the skin into the blood vessels.

However, GE-100 is safe even after penetrating into the skin as it does not decompose the membrane proteins.



- ◆ Can achieve preservative-free cosmetics that can be used with confidence even by people with sensitive skin.

● Cleansing agent

● Milky lotion

● Makeup remover

● Serum