

01.

Steam Sterilizer for Powdered Material

A powder sterilization system developed to resolve hygiene issues caused by microbial contamination

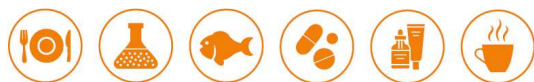
Hansung's steam sterilizer, the first of its kind developed in Korea, was designed to overcome the limitations of conventional sterilization methods. Unlike irradiation-based systems, it uses steam to eliminate microbes — allowing products to remain free from mandatory irradiation labeling. The system achieves up to 99.99% sterilization while preserving the product's original color, aroma, and nutritional value.



Registered patent
Red Pepper Powder Sterilization System

10-2039481 (KR)
10-1445684 (KR)
10-1462089 (KR)
10-2094317 (KR)
10-1414581 (KR)
10-1768494 (KR)
10-1794064 (KR)
10-1830756 (KR)
10-1603555 (KR)

APPLICATION FIELDS



Food Agricultural products Seafood Pharmaceutical Cosmetics Tea and Coffee

STERILIZATION RESULTS

Sterilization Results

* Specimen :
Red pepper powder
* Analyzed using Petrifilm plates



Pre-Sterilization

Total Plate Count:
 1.14×10^7 CFU/g



Post-Sterilization

Confirmed 99.99% reduction in microbial count

PRODUCT SPECIFICATIONS

Type	Product name	Processing Capacity	Specification
Small	HPS-100	50 ~ 100 kg/hr	Depends on the product
Medium	HPS-300	300 ~ 500 kg/hr	

PRODUCT FEATURES

01. Excellent sterilization performance and quality preservation

• Non-damaging steam sterilization

Using high-pressure steam, it minimizes raw material damage and achieves 99.99% complete sterilization, ensuring superior effectiveness compared to dry heat sterilization.

• Quality preservation

Hansung's steam sterilization preserves the original quality of raw materials without any changes in color, flavor, or nutrients.

• Sterilization of heat-sensitive raw materials

Even heat-sensitive raw materials such as red pepper powder can be safely sterilized without any changes in color or quality.

02. Safe and convenient operation

• Radiation-free

There is no obligation to display the radiation irradiation mark, which helps prevent consumer resistance.

• One-touch powder sterilization process

With a simple operation that performs sterilization and grinding just by feeding the raw material, anyone can use it easily.

• Constructed with hygienic materials

Stainless steel is used for all product-contact surfaces, providing hygienic and safe operation.