



## STAINLESS STEEL 316L,321

STAINLESS STEEL 316L,321

Stainless steel has high heat and corrosion resistance °

Sino-Japan Electric Heater Co., Ltd., selects three types of stainless steel and makes sheath heaters according to user needs °

SUS304 · SUS321 · SUS316L · SUS309S · SUS310S

## SUS304

### Features

- Made of the cheapest material used most widely among the various types of stainless steel

### Application examples

- Toasters and show cases
- etc

## Precautions

- May be subject to rust depending on the use environments, though these heaters are made of stainless steel
- Do not use them in environments that are always moist
- Stainless steel is a hard material, and the user should pay attention to the bending radius
- The bending radius standards also depend on the bending shapes such as U, L, etc

## Material specifications

- Available diameter :  $\varnothing 0.52 \sim \varnothing 16.00$
- Details of contents : Ni 8.0 ~ 10.5, Cr 18.0 ~ 20.0, Mn 2.00MAX, Fe Bal
- Proper environment : Air heating
- Limit service temperature(UL) : 600°C or less

## SUS321

## Features

- Contains more nickel than SUS304 and also contains titanium Features higher heat and corrosion resistance

## Application examples

- Fish roasters, can dispensers, microwave oven ranges, toasters, show cases and defrosters
- etc

## Precautions

- These heaters are prone to creat scale on pipe surfaces depending on the use environments
- SUS321 is hard material and the user should pay attention to the bending radius
- The bending radius standards also depend on the bending shapes such as U, L, etc

## Material specifications

- Available diameter :  $\varnothing 0.52 \sim \varnothing 16.00$
- Details of contents : Ni 9.0 ~ 13.0, Cr 17.0 ~ 19.0, Ti 5\*C% MAX, Mn 2.00MAX, Fe Bal °
- Proper environment : Air heating °
- Limit service temperature(UL) : 650°C or less °

## SUS316L

### Features

- Contains much nickel and chromium ° Also contains molybdenum ° Features superior corrosion resistance
- Mainly used in water or humid environments ° Recommended material exclusively used for heating in water
- Requires electrolytic polishing ° passivation processing or acid washing, which is indispensable for use in water

### Application examples

- Fryers ° electric kettles ° show cases ° defrosters ° and calorifiers °
- etc

### Precautions

- SUS316L is hard material ° and the user should pay attention to the bending radius
- The bending radius standards also depend on the bending shapes such as U ° L ° etc

## Material specifications

- Available diameter :  $\varnothing 0.52 \sim \varnothing 16.00$
- Details of contents : Ni 10.0 ~ 15.0, Cr 16.0 ~ 18.0, Mn 2.00MAX, Mo 2.0~3.0,
- Fe Bal °
- Proper environment : Heating in water ,Air heating °
- Limit service temperature(UL) : 600°C or less °

## SUS309S

### Features

- Made of the cheapest material used most widely among the various types of stainless steel

### Application examples

- Toasters and show cases °
- etc

### Precautions

- May be subject to rust depending on the use environments, though these heaters are made of stainless steel
- Do not use them in environments that are always moist
- Stainless steel is a hard material, and the user should pay attention to the bending radius
- The bending radius standards also depend on the bending shapes such as U , L , etc

### Material specifications

- Available diameter :  $\varnothing 0.52 \sim \varnothing 16.00$
- Details of contents : Ni 12.0 ~ 15.0, Cr 22.0 ~ 24.0, Mn 2.00MAX, Fe Bal °
- Proper environment : Heating in water ,Air heating
- Limit service temperature(UL) : 760°C or less °

## SUS310S

### Features

- Made of the cheapest material used most widely among the various types of stainless steel

### Application examples

- Toasters and show cases
- etc

### Precautions

- May be subject to rust depending on the use environments, though these heaters are made of stainless steel
- Do not use them in environments that are always moist
- Stainless steel is a hard material, and the user should pay attention to the bending radius
- The bending radius standards also depend on the bending shapes such as U , L , etc

### Material specifications

- Available diameter :  $\varnothing 0.52 \sim \varnothing 16.00$
- Details of contents : Ni 19 ~ 22, Cr 24 ~ 26, Mn 2.0MAX, Fe Bal
- Proper environment : **Air heating**

Limit service temperature(UL) : 871°C or less