



# RUSPERT

Improving the performance  
of electroplating





# RUSPERT



## RUSPERT

Greatly improve the anti-corrosion performance of traditional hot-dip galvanizing and electroplating. Moreover, various colors can be provided to match the surrounding landscape.

RUSPERT is a combination of electroplating and coatings, which can be widely used in different conditions.

### Features

#### 01 Superior corrosion resistance

Combined with zinc plating film such as electroplating and hot-dip galvanizing which can improve anti-corrosion performance in different conditions.

#### 02 Corrosion resistance against scratches

RUSPERT has high anti-corrosion performance against scratches thanks to the combined film.

#### 03 Color variation

The basic color is silver and please contact us for color variety request.

#### 04 Low cure temperature

There is no effects on physical properties of metal due to the low cure temperature below 200 °C.

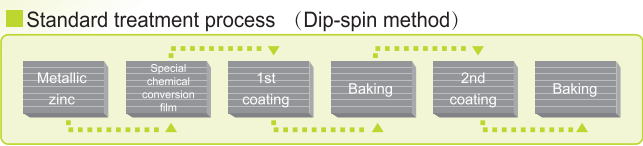
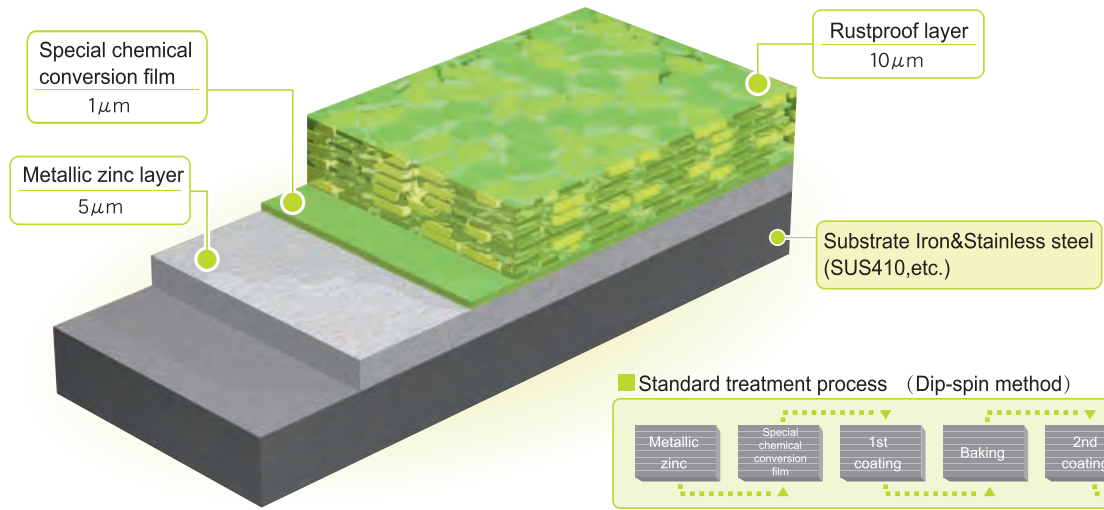
#### 05 Electrolytic corrosion resistance

Reduce dissimilar metal contact corrosion apparently between the products and aluminum board or plated steel board.



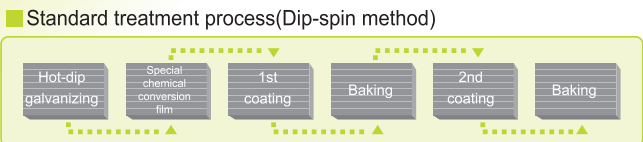
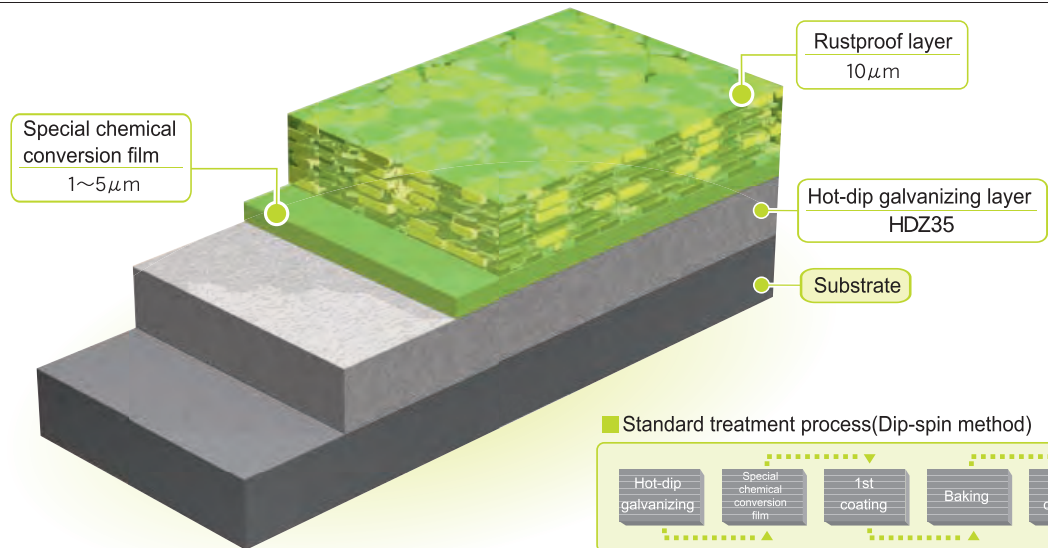
## Coating film structure

### RUSPERT treatment



※Dip&spray or spray is also available depending on the profile of the products.

### RUSPERT treatment on hot-dip galvanizing



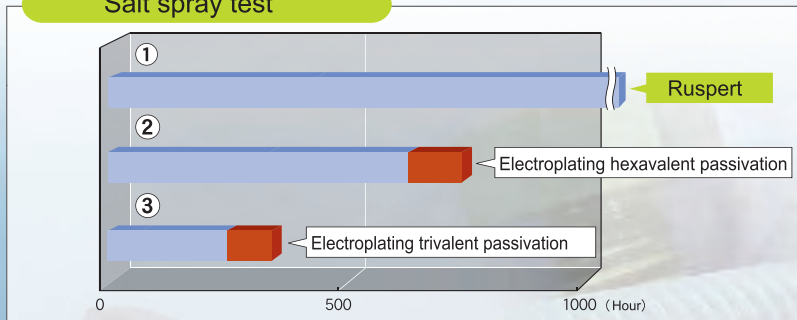
※Dip&spray or spray is also available depending on the profile of the products.

※Content that has been written down in the brochure is the standard process. We can also make thin-film processing and thick-film processing depending on your requirements. Please contact us for further information.

## Coating Performance

■ No red rust occurred ■ Red rust occurred

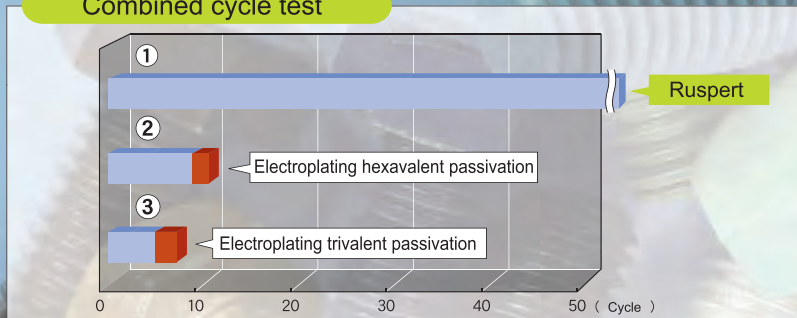
### Salt spray test



#### ▶ JIS Z 2371

Spraying with 5% salt water, continuously sprayed.

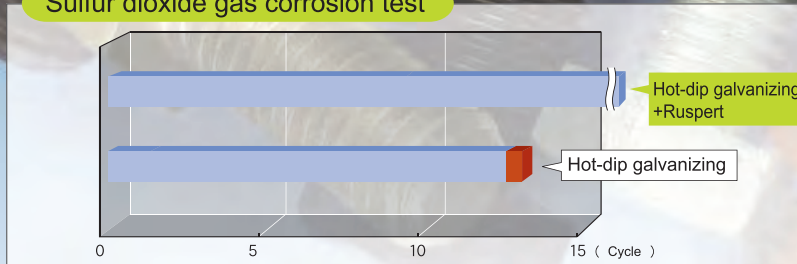
### Combined cycle test



#### ▶ JASO M609-91

One cycle contains 3 steps  
 Salt spraying 2 Hours  
 (35°C 5%)  
 Drying 4 Hours  
 (60°C 20~30%RH)  
 Humidity exposure 2 Hours  
 (50°C above 95%RH)

### Sulfur dioxide gas corrosion test



#### ▶ DIN50018(SO<sub>2</sub> 0.2ℓ)

One cycle contains 2 steps  
 Humidity:100% 8 Hours  
 (Heat:40°C±3°C)  
 Humidity:75% 16 Hours  
 (Cooling:18°C~28°C)

#### Treatment Details :

Sample Bolt (M8×20)

Treatment content

#### ① Ruspert

- Metallic zinc layer Electroplating: 5μm  
Hot-dip galvanizing HDZ-35-
- Special chemical conversion film Electroplating: 1μm(hexavalent chromium or trivalent chromium passivation)  
Hot-dip galvanizing layer: 1μm(special chemical treatment)
- Rustproof layer 10μm

#### ② Electroplating hexavalent passivation

- Film thickness 5μm

#### ③ Electroplating trivalent passivation

- Film thickness 5μm

According to the requirement, various colors and treatments will be provided for your reference.

Remarks: The experimental data above are the results of tests but the performance may have deviation when used in different conditions.



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