



RUSPERT[®] Non-Chrome

Environmental-friendly



Chrome-free

Electrolytic
corrosion
resistance

Superior
corrosion
resistance

Environmental-friendly



Completely Chrome-free



RUSPERT[®]

Non-Chrome

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Non-Chrome Ruspert has been developed by the concept of completely chrome free. Meanwhile, the good performance of superior anti-corrosion is still maintained.



Features

01 Environmental-friendly

Free from the hazardous substance such as hexavalent chromium, trivalent chromium, lead, cadmium, mercury.
RoHS and REACH compliant.

02 Superior anti-corrosion

The chrome passivation treatment is changed to special chemical film.
Strong adhesion with topcoat can still hold the equivalent performance.

03 Electrolytic corrosion resistance

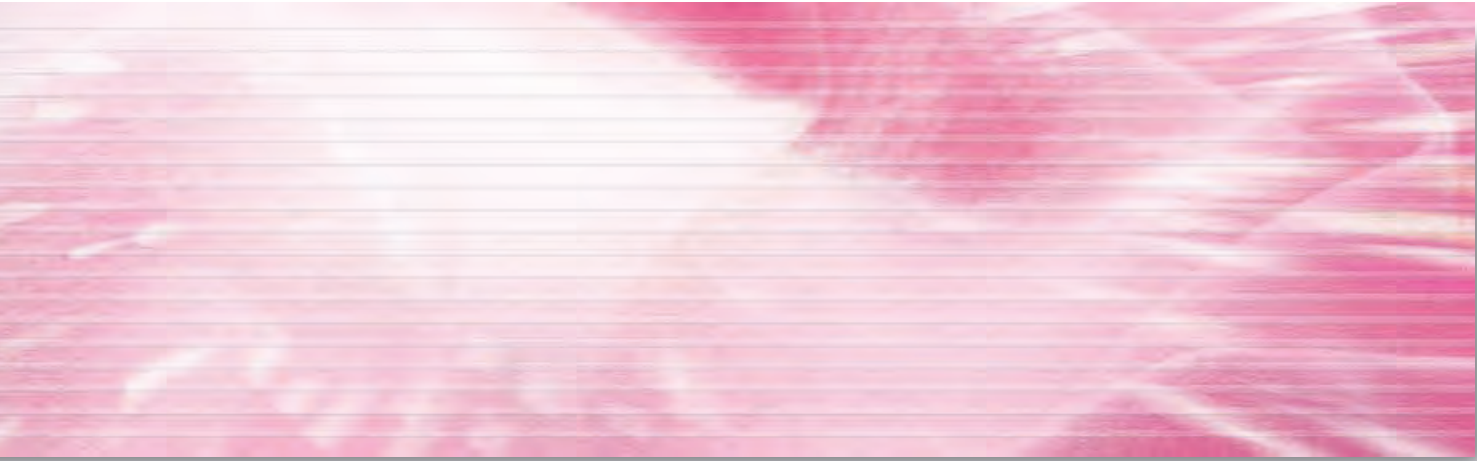
Reducing dissimilar metal contact corrosion apparently between the products and aluminum board or plated steel board.

04 Color variation

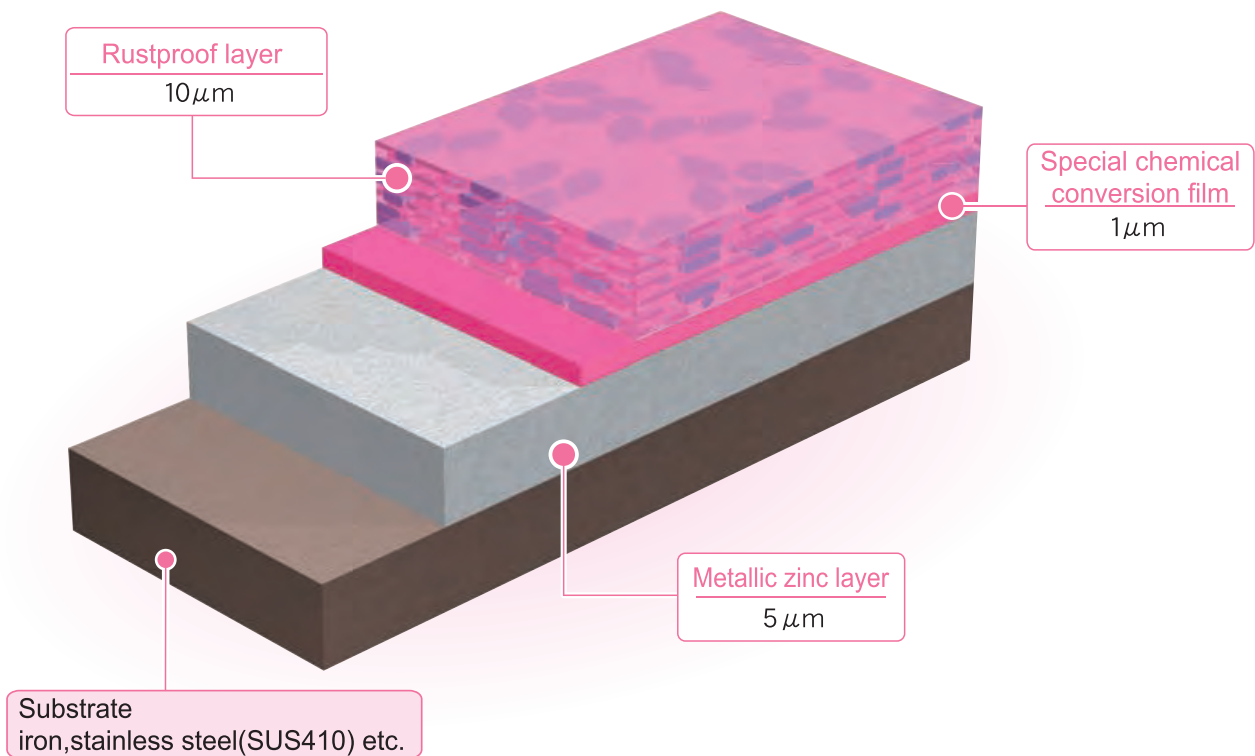
The basic color is silver and if it's necessary, other colors are also available please contact us in advance.

05 Low cure temperature

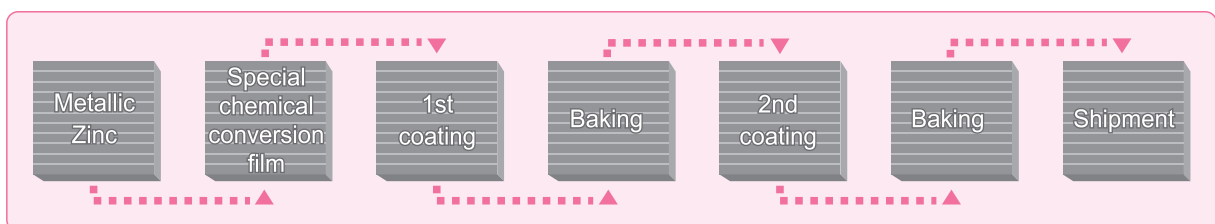
The baking temperature below 200 °C avoids metallographic changes.



Coating film structure



Standard treatment process(Dip-spin method)



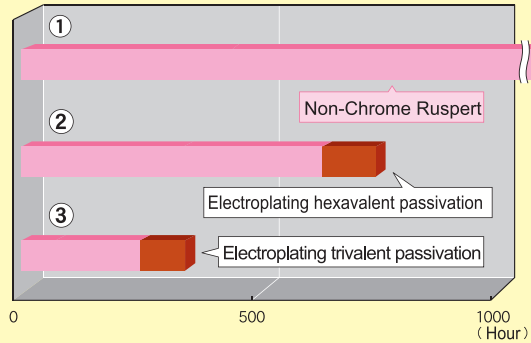
- ※ Spray is also available depending on the profile of the products.
- ※ The content in brochure is the standard process. And we can also make thin-film processing and thick-film processing depending on your requirements. Please contact us about the details.
- ※ The special chemical conversion treatment also can be changed to different treatments depending on environmental conditions.

Coating Performance

Salt spray test

▶ JIS Z 2371

Spraying with 5% salt water at 35°C

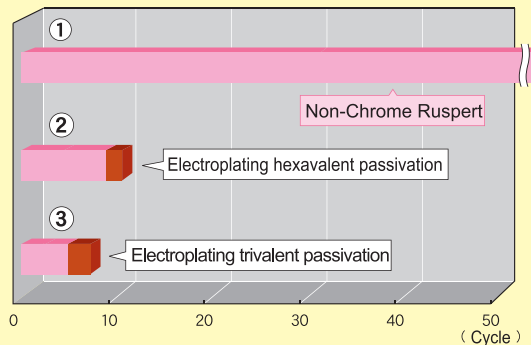


Combined cycle test

▶ JASO M609-91

One cycle contains 3 steps

Salt spraying (35°C 5%) 2 hours
 Drying (60°C 20~30%RH) 4 hours
 Humidity exposure (50°C above 95%RH) 2 hours



■ No red rust occurred ■ Red rust occurred

Treatment Details

Sample	Bolt (M8×20)	Treatment
		① Non-Chrome Ruspert ■ Metallic zinc layer 5μm ■ Special chemical conversion film 1μm ■ Rustproof layer 10μm Baking at 200°C Twice coating
		② Electroplating hexavalent passivation ■ Film thickness 5μm
		③ Electroplating trivalent passivation ■ Film thickness 5μm

Compared with trivalent passivation and hexavalent passivation, Non-Chrome Ruspert is superior in corrosion resistance.

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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