



# DISGO<sup>®</sup> RINTAS

Superior corrosion resistance  
Extremely thin and durable film



## 5 colors variation



Chrome  
-free

Low processing  
temperature  
(drying temperature  
below 200°C)

Environmental-friendly



Completely Chrome-free



Nihon Ruspert Co., Ltd.



## DISGO® RINTAS

DISGO RINTAS is a high-grade metal surface processing technology which combines the metallic zinc layer (with high hardness and superior edge coverage) with the DISGO treatment technology that developed under our years of concentration.



### Features

#### 01 No paint accumulation

Stable screwing and tightening torque is ensured thanks to the thin and uniform coating without excess filling on screw recess or threads.



#### 03 Thin film-superior corrosion resistance

Combining the thin film metallic zinc layer with high-grade rustproof coating through a special chemical conversion film, which provide high-grade corrosion resistance in spite of thin film.

#### 05 Low curing temperature

The baking temperature that below 200°C can protect the substrate from physical property changes. Energy consumption is reduced by the low processing temperature and could also prevent the greenhouse effect.

#### 02 Environmental-friendly

Free from RoHS directive 6 hazardous substances such as the Hexavalent and trivalent Chromium, Lead, Cadmium, and Mercury.

RoHS and REACH compliant.

#### 04 Durable coating structure

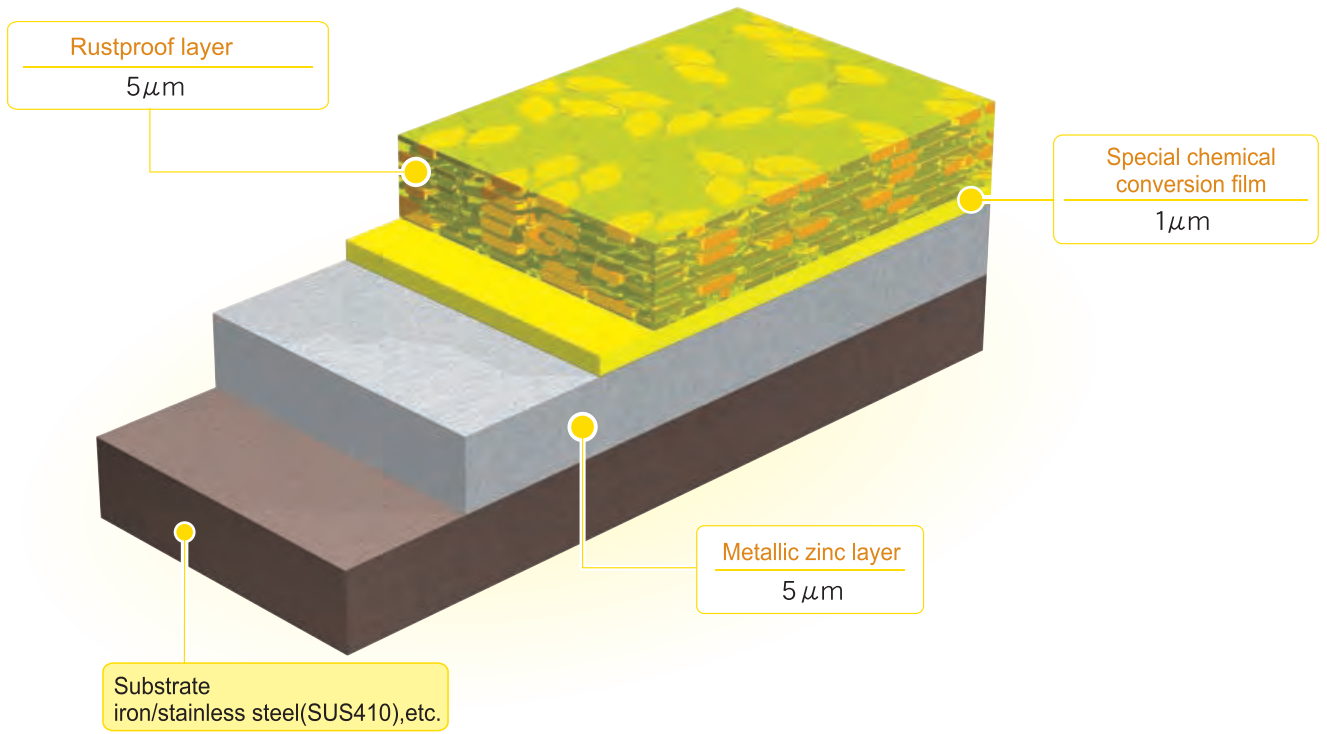
The rustproof coating layer with excellent chemical resistance and weather resistance combined with the stable metallic zinc layer can effectively protect the substrate from corrosive elements.

#### 06 Electrolytic corrosion resistance

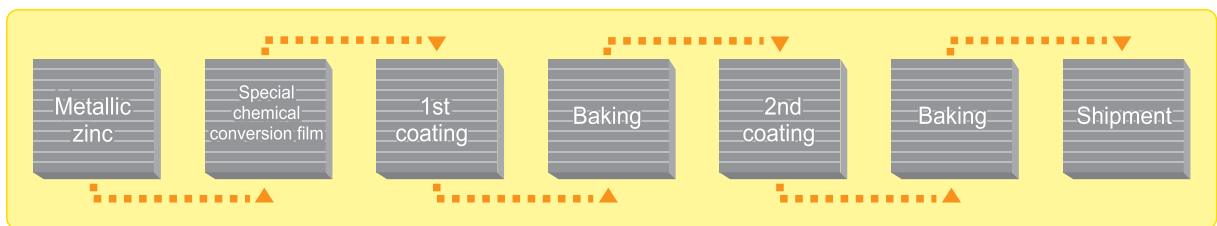
Reduce dissimilar metal contact corrosion apparently between the products and aluminum board or plated steel board.



## Coating film structure

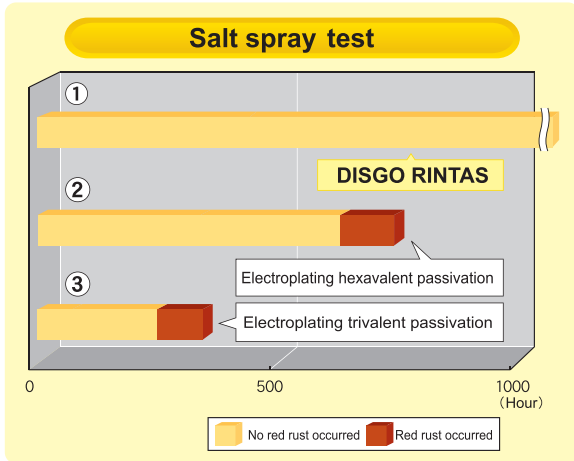


## Standard treatment process(Dip-spin method)

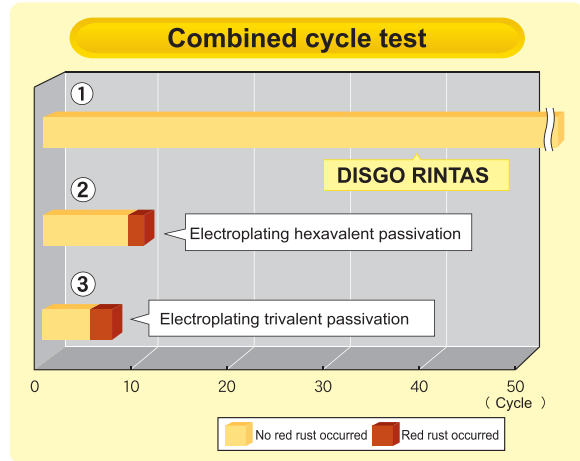


※ Spraying method is also available depending on the profile of products.

## Coating Performance



▶ JIS Z 2371 Spraying with 5% salt water at 35 °C



▶ JASO M609-91

**One cycle contains 3 steps**

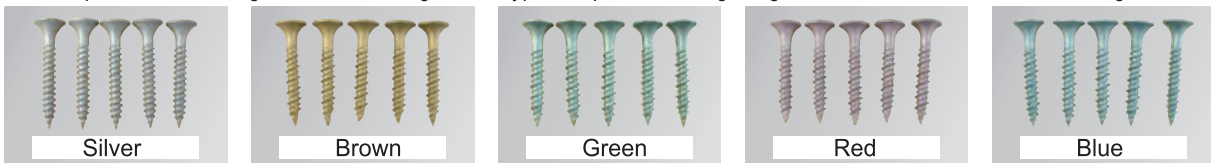
Salt spraying ( 35°C 5% )	2 hours
Drying(60 °C 20-30%RH)	4 hours
Humectation(50 °C above 95%RH)	2 hours

Treatment Details		① DISGO RINTAS	② Electroplating hexavalent passivation
Sample	Bolt (M8×20)	Content	■ Film thickness 5 μm
		<ul style="list-style-type: none"> <li>■ Metallic zinc layer 5μm</li> <li>■ Special chemical conversion film 1μm</li> <li>■ Rustproof coating layer 5μm</li> </ul> Baking at 200 °C, twice coating	③ Electroplating trivalent passivation
			■ Film thickness 5 μm

Compared with trivalent chromium passivation and hexavalent passivation, DISGO RINTAS is superior in corrosion resistance.

### Color variation

Color separation according to color-matching or size/type can prevent wrong usage etc. which results in better working efficiency.



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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