

## List of Related Materials for No.59 Series Anti-corrosion Tape

| Category                                     | Function                              | Product No.                                   | Specification   | Standard Quantity Used  | Features, Applications  |
|--|---------------------------------------|---|---|-------------------------|---|
| Main Material                                | Anti-corrosion Tapes                  | No.59L<br>No.59H                              | Thickness x Width x Length/Quantity<br>(mm) (mm) (m) /Case<br>1.1× 50×10/36 Rolls<br>1.1× 100×10/18 Rolls<br>1.1× 150×10/12 Rolls | _____                   | <ul style="list-style-type: none"> <li>●Petrolatum based rust preventive and anti-corrosion tape which can be used underground and under water.</li> <li>●Rust prevention and anti-corrosion of piping, machinery, tanks, etc.</li> </ul> |
|  |                                       | No.59 HN<br>(Flame Retardant)                 | 1.1× 200×10/ 8 Rolls<br>1.1× 300×10/ 6 Rolls<br>Weight : 1.4 kg/m <sup>2</sup>  |                         |   |
| Supplementary Materials                      | Undercoat Materials                   | No.59PW                                       | 2 cans/case<br>1 can : Contains 3 kg  | 200~400g/m <sup>2</sup> | <ul style="list-style-type: none"> <li>●A rust preventive undercoat material.</li> <li>●Adhesion to surfaces under water is possible through its water displacement characteristics.</li> </ul>   |
|  |                                       | NITOPRIMER AF                                 | 14 kg/can   | 200g/m <sup>2</sup>     | <ul style="list-style-type: none"> <li>●Undercoat material for use on concrete and mortar surfaces.</li> <li>●Improves the adhesion of tape.</li> </ul>   |
|  | Filler Materials                      | No.59M  | 8 bags/case<br>1 bag : Contains 3 kg.   | _____                   | <ul style="list-style-type: none"> <li>●A filler material with a clay consistency which is effective for rust prevention.</li> <li>●For filling gaps in irregularly shaped parts such as flanges.</li> </ul>                              |
|  | Materials for Underground Protections | No.51<br>Anti-corrosion Vinyl Tape<br>(Black) | Thickness x Width x Length/Quantity<br>(mm) (mm) (m) /Case<br>0.4× 50×10/50 Rolls<br>0.4× 75×10/40 Rolls<br>0.4× 100×10/30 Rolls  | _____                   | <ul style="list-style-type: none"> <li>●Protection tape for No.59 (anti-corrosion tape for underground pipes) .</li> </ul>  |
| No.55<br>Anti-corrosion<br>Polyethylene Tape |                                       |   |   |                         |   |

# Nitto

Innovation for Customers

## Petrolatum Anti-corrosion Tape No.59 Series



For the most correct and safest use, be sure to read the "Handling Instructions" prior to use.

- Nitto Denko's Toyohashi Branch where the product is quality-assured and manufactured is a plant certified by ISO 14001 Environmental Management System Standard.
- The product is quality-assured and manufactured at Nitto Denko's Toyohashi Branch that acquired ISO 9001 (JQA-0454, BSI-FM-28540) certification
- The contents of this catalog are current as of April 2015.

## Nitto Denko Corporation

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9707F20 ㊄  
0702R00 ㊄  
1504R00

# No.59 Series Tape adheres tightly to any shape to give rust prevention and anti-corrosion of irregularly shaped parts.

Rusting of steel pipes and steel structures, together with hairline cracks, poses a major hazard as it advances. In order to conserve resources and energy, it is necessary to thoroughly prevent even minor rusting. At Nitto, we use No.59 Series Tape for rust prevention and anti-corrosion of irregularly shaped parts of the materials and places where rust prevention and anti-corrosion are applicable. No.59 Series tapes are made from a nonwoven fabric impregnated with a compound whose main ingredient is petrolatum, a substance derived from petroleum. Consequently this material possesses superior pliability and adheres tightly to any shape it is fitted into. Application is easy. It can either be wrapped and smoothed down, or it can be laid on and smoothed down, and forms an outstanding rust preventive, anti-corrosion layer.



## Gives Outstanding Rust Prevention and Anti-corrosion Results

- Shuts out moisture and air from metallic surfaces.
- Rust preventive and anti-corrosion petrolatum changes red rust to black rust, stabilizing it.
- Chemical resistance is excellent, so it prevents corrosion from acid, alkali and bacteria.
- Petrolatum, with its good adhesive strength, does not evaporate or harden, so it forms a rust preventive and anti-corrosion layer which always has adhesiveness.

## Application is Simple

- No special heat curing is necessary.
- It fits snugly against any shape, no matter how complex.
- Heating is not necessary. An anti-corrosion layer can be created simply by wrapping and smoothing down.
- Working time is shortened.

## Four Types are Available to Meet Specific Needs

- No. 59L, No. 59H**  
For parts which are buried or which pass through water.
- No. 59HN**  
For parts where flame retardation is required.
- No. 59HT**  
For high temperature parts where heat resistance up to 90°C is required.

## Major Uses

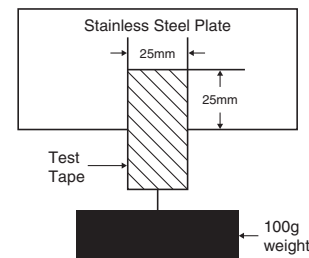
- Pipes, etc. (Not only straight sections, but also flanges, elbows, T-joints, etc.)
- Steel structures with complex shapes.
- For steel structures built in the sea or along tidal zones, the tape can be wrapped after applying an undercoat of underwater paste. If an appropriate protective cover is provided, a long term rust preventive and anti-corrosion fill will be formed.

## General Characteristics

| Item                          | Units             | Measurement Values |                  |                  |
|-------------------------------|-------------------|--------------------|------------------|------------------|
|                               |                   | No.59L             | No.59H           | No.59HN          |
| Thickness                     | mm                | 1.1                | 1.1              | 1.1              |
| Weight                        | kg/m <sup>2</sup> | 1.4                | 1.4              | 1.5              |
| Elongation                    | %                 | 15.0               | 15.0             | 15.0             |
| Water Absorption Rate         | %                 | 0.1                | 0.1              | 0.1              |
| Tensile Load                  | N/25mm            | 78.0               | 78.0             | 78.0             |
| Adhesive Strength*1           | s                 | 60 or longer       | 60 or longer     | 60 or longer     |
| Volume Resistivity            | Ω cm              | 10 <sup>14</sup>   | 10 <sup>14</sup> | 10 <sup>14</sup> |
| Resistance to Thermal Melting | °C                | +55                | +65              | +65              |

### \*1 Adhesive Strength Test Method

At a test temperature of 20°C, a 25 x 25 mm piece of test material is affixed to a stainless steel plate, pressed down by running a 5 kg roller back and forth over it one time, then a 100 g weight is suspended from it and the time until it falls off is measured.



\* The above values are examples of measurements and are not guaranteed values.

## Application Procedure



**1 Cleaning the Base Material**  
Remove burrs and rust. Clean off dirt, moisture and oil.



**2 Application of Undercoat Material**  
Evenly apply undercoat material.



**3 Insertion of Filler Material**  
Fill gaps on irregular parts with filler material and make the surface smooth.



**4 Winding of Tape**  
Gently pulling the tape, wind it around the pipe by 55% lapping.



**5 Smoothing Down the Tape**  
Smooth down the surface and make sure the tape is adhered sufficiently.



**Wrapping of Protective Vinyl Tape when Burying**  
When burying the pipe, wrap it with anti-corrosion vinyl tape No.51 or polyethylene tape No.55 for protection.

## Cautions Concerning Use

- Petrolatum is dissolved by organic solvents. Please do not use this product in places where there is danger of it coming in contact with organic solvents.
- When applying a finish coating, make sure to check the coating's characteristics.

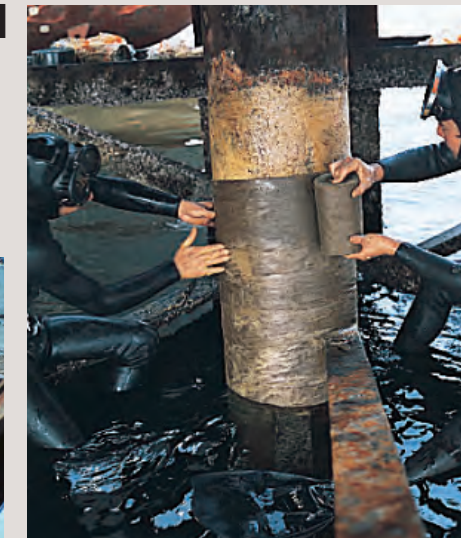
## Accredited Products

No.59L, No.59H and Anti-corrosion Vinyl Tape No.51 are JIS-compliant products. No.59L, No.59H and Anti-corrosion Polyethylene Tape No.55 are compliant with Common Specifications for Machinery and Construction\*.

## No.59 Series tape is used in these kinds of places.



Anti-corrosion for outside of underground tanks.



Anti-corrosion for marine structure.



Anti-corrosion around the base of tanks.



Anti-corrosion of buried steel coolant pipes.