

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 No.59H	Thickness x Width x Length/Quantity (mm) (mm) (m)/Case 1.1× 50×10/36 Rolls 1.1× 100×10/18 Rolls 1.1× 150×10/12 Rolls	_____	●Petrolatum based rust preventive and anti-corrosion tape which can be used underground and under water. ●Rust prevention and anti-corrosion of piping, machinery, tanks, etc.
		No.59 HN (Flame Retardant)	1.1× 200×10/ 8 Rolls 1.1× 300×10/ 6 Rolls Weight : 1.4 kg/m ²		●Flame retardation is added to the characteristics of No. 59H. ●Rust prevention in special fire zones such as industrial complexes.
Supplementary Materials	Undercoat Materials	No.59PW	2 cans/case 1 can : Contains 3 kg	200~400g/m ²	●A rust preventive undercoat material. ●Adhesion to surfaces under water is possible through its water displacement characteristics.
	Filler Materials	No.59M	8 bags/case 1 bag : Contains 3 kg.	_____	●A filler material with a clay consistency which is effective for rust prevention. ●For filling gaps in irregularly shaped parts such as flanges.
	Materials for Underground Protections	No.55 Anti-corrosion Polyethylene Tape	Thickness x Width x Length/Quantity (mm) (mm) (m)/Case 0.4× 50×10/50 Rolls 0.4× 75×10/40 Rolls 0.4× 100×10/30 Rolls	_____	●Protection tape for No.59 (anti-corrosion tape for underground pipes) .

Nitto

Innovation for Customers

Petrolatum Anti-corrosion Tape No.59 Series



- Nitto Denko Corporation Toyohashi Plant 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 Corporation Toyohashi Plant that acquired ISO 9001(JQA-0454, BSI-FM-28540) certification.
- The contents of this catalog are current as of January 2020.



CAUTION

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

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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.

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.

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.

Major Uses

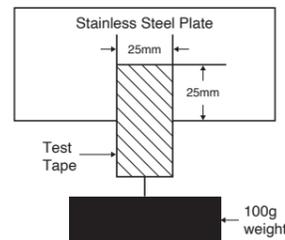
- Pipes, etc. (Not only straight sections, but also flanges, elbows, T-joints, etc.)
- Steel structures with complex shapes.
- For steel structures built in the sea or along tidal zones, the tape can be wrapped after applying an undercoat of underwater paste. If an appropriate protective cover is provided, 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 ²	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 ¹⁴	10 ¹⁴	10 ¹⁴
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 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.
- For more details on application procedures, please also refer to the "No.59 Series Key to Application".

Accredited 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 of piping in the pit.



Anti-corrosion of buried steel coolant pipes.