

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

Category	Function	Product No.	Specification	Standard Quantity Used	Features, Use
Main Material	Anti-corrosion Tape	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	—	●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× 150×10/12 Rolls 1.1× 200×10/ 8 Rolls 1.1× 300×10/ 6 Rolls		●Flame retardation is added to the characteristics of No. 59. ●Rust prevention in special fire zones such as industrial complexes.
		No.59 HT (For High Temperatures)	Weight : 1.4 kg/m ²		●For rust prevention and anti-corrosion of high temperature piping, machinery and tanks.
Supplementary Materials	Undercoat Material	No.59PW	2 cans/case 1 can : Contains 3 kg	200~400g/m ²	●Through its water displacement characteristics, it adheres tightly to metallic surfaces under water, excluding water from contact with the metal.
		NITOPRIMER AF	14 kg/can	200g/m ²	●Undercoat material for use on concrete and mortar surfaces. ●Improves the adhesion of tape.
	Filler Material	No.59M (Block type)	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.
		No.59 MN (Block type, flame retardant)			●Features and uses are the same as No. 59M.
	Materials for Underground Protection	No.51 Anti-corrosion Vinyl Tape (Black)	Thickness x Width x Length/Quantity (mm) (mm) (m)/Case 0.4× 50×10/50 Rolls 0.4× 75×10/40 Rolls	—	●Protection tape for No.59 (anti-corrosion tape for underground pipes) .
		No.55 Anti-corrosion Polyethylene Tape	0.4× 100×10/30 Rolls		

Petrolatum Anti-corrosion Tape No.59 Series



CAUTION

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 September 2010.

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9707F20 M[®]
0702R00 A[®]
1009R00

Flexible
Technology
Company

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 Denko, 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.

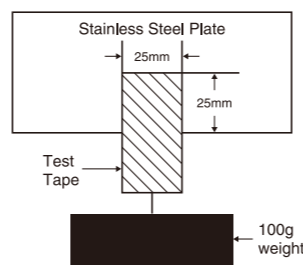
General Characteristics

Item	Units	Measurement Values			
		No.59L	No.59H	No.59HN	No.59HT
Thickness	mm	1.1	1.1	1.1	1.1
Weight	kg/m ²	1.4	1.4	1.4	1.4
Elongation	%	15.0	15.0	15.0	15.0
Water Absorption Rate	%	0.1	0.1	0.1	0.1
Tensile Load	N/25mm	78.0	78.0	78.0	78.0
Adhesive Strength*1	s	60 or longer	60 or longer	60 or longer	60 or longer
Volume Resistivity	Ω cm	10 ¹⁴	10 ¹⁴	10 ¹⁴	10 ¹⁴
Resistance to Thermal Melting*2	°C	~+55	~+65	~+65	~+90

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

*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.



*2 Resistance to Thermal Melting Test Method

Wind the tape around a small pipe and set it horizontally in a homothermal chamber at designated temperature. After 24 hours, any dropping of the tape compound should not be found.

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.