

List of Related Materials for NITOHULLMAC XG Series Outdoor Anti-corrosion Tape

Category	Function	Product No.	Specification	Standard Quantity Used	Features, Applications
Main Material	Anti-corrosion Tapes	NITOHULLMAC XG	Thickness x Width x Length / Quantity 1.1mm x 50mm x 10m / 24Rolls / Case 1.1mm x 100mm x 10m / 12Rolls / Case 1.1mm x 150mm x 10m / 8Rolls / Case 1.1mm x 200mm x 10m / 6Rolls / Case 1.1mm x 300mm x 10m / 4Rolls / Case	—	<ul style="list-style-type: none"> ● Anti-corrosion tape for outdoor steel structures. ● A film is formed by oxidation polymerization. ● Outstanding conformity to irregular shapes and weather resistance.
Supplementary Materials	Undercoat Materials	NITOHULLMAC XG-PN	Weight x Quantity 16kg x 1Can / Case	300g/m ²	<ul style="list-style-type: none"> ● Undercoat material which is effective in preventing corrosion of steel surfaces. ● This has the effect of improving the adhesion of tape.
	Filler Materials	NITOHULLMAC XG-M	Weight x Quantity 2kg x 10Pc / Case Thickness x Width x Length 25mm x 250mm x 200mm / 1Pc	—	<ul style="list-style-type: none"> ● For irregularly shaped parts such as flanges. ● A white clay consistency.
	Top Coat Materials	NITOHULLMAC XG-T	Weight x Quantity 4kg x 4Bags / Can / Case	300g/m ²	<ul style="list-style-type: none"> ● Top coat material applied over the outdoor anti-corrosion tape. ● Forms a film in a short period of time and prevents the adhesion of dust, etc. ● Has the effect of heightening the tape's anti-corrosion and weather resistance.

Nitto

Innovation for Customers

Oxidation Polymerized Outdoor Anti-corrosion Tape

NITOHULLMAC XG Series



- 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 July 2019.



CAUTION

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

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Easy to Apply "Stick-on Heavy Corrosion Protection Paint" Secure Outdoor Anti-corrosion Tape NITOHULLMAC XG Series

Outdoor steel structures are continually washed with driving rains and bathed in direct sunlight. To assure their safety and conserve resources, rust countermeasures are indispensable. Industrial complexes and power plants situated along the waterfront, in particular, are also subjected to particularly harsh conditions from tidal winds, which makes anti-corrosion of pipes and supports a major problem. The Nitto Outdoor Anti-corrosion Tape NITOHULLMAC XG Series was designed to solve these problems.

This anti-corrosion tape is made of a plastic base nonwoven fabric impregnated with a compound which has a specially compounded drying oil as its main ingredient. Through oxidation polymerization, this compound forms a surface film which delivers outstanding corrosion and weather resistance. In addition, since this material is extremely pliable, it only needs to be applied and smoothed down, and it adheres tightly to any location, regardless of its shape. It can quite accurately be called a "Stick-on Heavy Anti-corrosion Paint."

At Nitto, we have developed a large number of anti-corrosion materials through our own independent polymer synthesis technologies and their application technologies, and we are ready to respond to any and every anti-corrosion requirement.

General Characteristics

Item	Units	NITOHULLMAC XG	Test Method
Thickness	mm	1.1	JIS Z 1902
Weight	kg/m ²	1.7	—
Tensile Strength	N/25mm	85	JIS Z 1902
Elongation	%	14	JIS Z 1902
Water Absorption Rate	%	0.5	24h water immersion
Insulation Resistance	Ω · m ²	3.0 × 10 ⁶	JIS Z 1902
Volume Resistivity	Ω · cm	1.0 × 10 ¹¹	JIS K 6911
Adhesive Strength	N/25mm	24	JIS Z 1902
Flame Resistance	—	Pass	Criteria by Fire and Disaster Management Agency in Japan
Heat Resistance	°C	90	5 years' continuous use
Salt Water Spray	2,000h	No occurrence of rust	JIS Z 1902
Weather Resistance	2,000h	No occurrence of rust	Sunshine Weatherometer

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



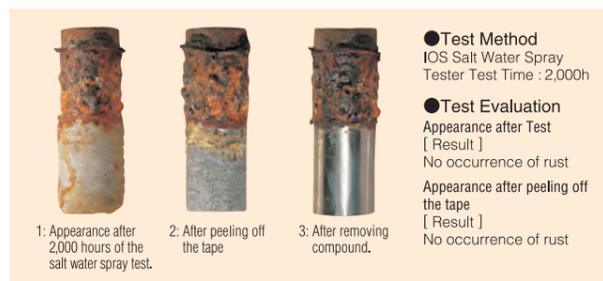
Easy to apply, with remarkable workability

- Extremely pliable, so it fits any complex shape precisely.
- Application is accomplished simply by affixing, or wrapping, then smoothing it down. The application procedure is simple, with no need of special heat curing.
- Changes in viscosity due to low and high temperatures are minimal, and workability does not vary between summer and winter.

Gives outstanding anti-corrosion

- The adhesive strength of this compound shuts out moisture and air from metallic surfaces. After application, dampness disappears through the process of oxidation polymerization, forming a tape layer which is flexible.

Salt Water Spray Test



Application Procedure

	Irregularly Shaped Part	Pipe
1 Cleaning the Base Material Remove burrs and rust. Clean off dirt, moisture and oil.		
2 Applying under-coat material. Evenly apply primer XG-P(NADALE).		
3 Insertion of Filler Material Fill gaps on irregular parts with filler material XG-M and make the surface smooth.		Perform this step as necessary.
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. <small>*This is the most important step.</small>		
6 Applying the Top Coat Material Apply top coat XG-T evenly, with a brush or a roller brush.		

Cautions Concerning Use

- Oxidation polymerization begins after contact with oxygen, so use up the tape as soon as it is unsealed.
- Keep unused tape stored in a cold, dark place.
- Apply top coat material in a condition over 5°C.
(Cracking may occur when wind passes in low temperatures.)
- Please do not use this product in places where there is danger of it coming in contact with organic solvents.

Examples of Application

