

Product: **12FB Putty Tape**

Productgroup: **Cable Materials**

## General description

Nitto 12 FB is a self-amalgamating putty tape. By stretching and wrapping around pipefittings, cables or other objects, the putty will instantly amalgamate into itself, thus creating a waterproof insulating barrier to prevent corrosion. 12 FB is usable in- and outdoors.

## Construction



- Putty based on synthetic black rubber
- Dry-edge liner: siliconised white paper

## Characteristics

- Nitto 12 FB is a soft and tacky putty. These properties are appreciated for applications where the temperature is low or where a more sticky putty is required.
- The combination of Nitto 12 FB with Nitto PVC tape 51 for more armour protection, offers a reliable sealing and anti-corrosion coating.
- The thicker type of the product makes it possible to even out contoured surfaces.
- Nitto 12 FB only requires a small overlap percentage.

## Application

In some applications, the additional use of a primer can be considered for optimum results. In general you can find insulation putty's in the following applications:

- cable splices
- cable terminals as insulation seal
- cable jacket repair
- pipes, joints and fittings
- very suitable as filling and additional sealant in shrinkable sleeves

## Features

- soft and tacky putty
- reliable sealing and anti-corrosion coating
- level out contoured surfaces
- minimum overlap percentage required

## Properties

### General physical properties

	12FB A	12FB B	12FB C	Test method
Thickness	1.0 mm	2.3 mm	3.0 mm	ASTM D 1000
Weight	1155 g/m <sup>2</sup>	2660 g/m <sup>2</sup>	3640 g/m <sup>2</sup>	
Yield Strength	75 g/6mm	150 g/6mm	250 g/6mm	ASTM D 638
	10 g/mm <sup>2</sup>	11 g/mm <sup>2</sup>	13 g/mm <sup>2</sup>	
Elongation at break	> 3000%	> 3000%	> 3000%	ASTM D 1000
Needle penetration	4.6 mm	4.6 mm	5.5 mm	ASTM D 5
Self-amalgamating property	no flagging	no flagging	no flagging	ASTM D 1373
	no unwind	no unwind	no unwind	
Breakdown voltage	17 kV/mm	17 kV/mm	17 kV/mm	ASTM D 1373
Volume resistivity	1x10exp10 ohm.cm	idem 12FB A	idem 12FB A	ASTM D 257

## Availability

### 12FB A

Rollsize t x w x l *	Core diameter	Rolls/carton	Rolls/layer	Rolls/pallet
1mm x 30mm x 20m	76 mm	8	48	192
1mm x 40mm x 10m	76 mm	25	150	600
1mm x 60mm x 10m	76 mm	15	90	360
1mm x 80mm x 10m	76 mm	10	60	240

### 12FB B

Rollsize t x w x l *	Core diameter	Rolls/carton	Rolls/layer	Rolls/pallet
2.3mm x 25mm x 10m	76 mm	16	96	384
2.3mm x 50mm x 10m	76 mm	8	48	192

### 12FB C

Rollsize t x w x l *	Core diameter	Rolls/carton	Rolls/layer	Rolls/pallet
3mm x 38mm x 1.5m**	31.5 mm	10	140	1260

\* Please contact us for specific dimensions

\*\* Individually packed in carton

## Application guidelines

- Clean the surface properly by removing all dust, dirt and grease.
- In some applications it's recommended to additionally use primer.
- Wrap around and stretch the putty product. An overlap of 10 to 20% is sufficient.

Our technical center is always at your disposal for special application requests.  
Please contact us to make an appointment.

## Precautions

All products manufactured by NITTO EUROPE NV are guaranteed to be free from defect at the time of shipping when tested according to NITTO EUROPE NV product specifications. Properties of the products are susceptible to change due to various influences such as composition and condition of the extrusion, impurities in or on the extrusion, temperature and humidity of storage and the surrounding environment during application etc. When the NITTO product is used in combination with other material, the user shall assure by his own tests the compatibility of the NITTO product in the resulting combination and whether the combination results in the expected performance.

## Packaging and storage

The product should be protected against direct sunlight and extremes in temperature and humidity and stored upright in its original packaging. Once removed from its packaging, it should be protected against dust and other impurities.

## Test methods and results

The properties of these products are determined in accordance with NITTO test methods. Detailed description of these methods are available on request. The above figures are average values, established to our best knowledge, but not to be used for specification purpose.

Edition: November 2004  
Code: DS/06.03/14 12FB ENG

Nitto Europe NV has obtained following certificates:

