

Insulation Tape Nitto 15



Product Description

Nitto 15 is a self-fusing, butyl rubber tape, widely used for the electrical insulation, protection, sealing, splicing and termination of 6 to 22 kV cables. Nitto has eliminated the conventional need for a liner thereby reducing the time required to apply the tape. Nitto 15 is available in 2 thicknesses: 0.5 mm and 0.75 mm.

Characteristics

Nitto 15 has an excellent volume resistivity, a high breakdown voltage and a low dissipation factor. It is totally resistant to moisture, water and chemicals. Nitto 15 offers excellent electrical insulation, workability and weather protection. The product has a superior weatherability and ozone resistance and because of the linerless system a very short application time. It completely self-amalgamates in two hours.

Application

Nitto 15 can be used for termination, splicing and corrosion protection of cables. Also insulation and protection of lead shielded cables is possible. The product is used for its waterproof sealing and corrosion protection of cables in marine and off-shore environments.

Application Temperature	min. -10 °C & max. 40 °C
Max. service temperature	continuously 65 °C short periods 100 °C

Above 40 °C the tape begins to amalgamate itself and can become difficult to unwind.

Features

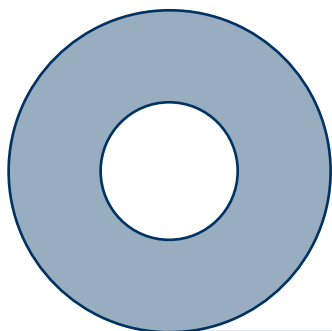
- Excellent volume resistivity
- High breakdown voltage
- Low dissipation factor
- Total resistance to moisture, water and chemicals
- Superior weatherability and ozone resistance
- Excellent workability
- Completely self-amalgamating
- Excellent electrical insulation

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.

Insulation Tape Nitto 15

Construction



- Butyl rubber
(liner not required)

Properties		Test method
Thickness	0.5mm	ASTM D 1000
Tensile strength 23 °C	3.2 N/mm ²	ASTM D 1373 (500mm/min)
Tensile strength 100 °C, 96 hrs	3.0 N/mm ²	ASTM D 1373
100% Modulus 23 °C	1.3 N/mm ²	ASTM D 1373
100% Modulus 100 °C, 96 hrs	1.3 N/mm ²	ASTM D 1373
Elongation 23 °C	550%	ASTM D 1373
Elongation 100 °C, 96 hrs	570%	ASTM D 1373
Brittle point	-60 °C	
Breakdown voltage	44 kV/mm	
Volume resistivity	2 x 10 ^{exp17} ohm.cm	ASTM D 1373
Dielectric dissipation factor	0.04%	
Dielectric constant	2.6	ASTM D 150
Power factor (60 Hz)	0.05-0.08%	ASTM D 1373
Self-amalgamating property		
stretched 180%, 5 min	Not yet amalgamated	Nitto test method
stretched 180%, 60 min	Nearly amalgamated	
stretched 180%, 24 hrs	Completely amalgamated	
Ozone resistance (0.02%, 24 hrs)	Good	ASTM D 470
Crack test (30 min immersed in water 80 °C)	No cracks	Nitto test method

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.

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.