

PRODUCT NAME: **Self-Fusing Silicone Rubber
Tape**
PRODUCT TYPE : **66**

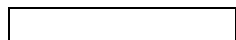
1 PRODUCT DESCRIPTION.

Nitto's N° 66 is a self-fusing silicone rubber tape having properties which are unrivalled by natural and synthetic rubber. Especially, as main insulating material, it provides excellent properties due to the specific features of silicone rubber. N° 66 excels in thermal and cold climates giving all round weatherability, moisture resistance, corona and ozone resistance together with the excellent electrical properties of silicone rubber.

2 CONCEPT / CONSTRUCTION.



Brown, Self-Fusing Silicone Rubber



Transperant Polyethylene Liner

3 FEATURES.

- * Excellent electrical properties.
- * Outstanding thermal resistance (from -57°C to +250°C).
- * Good moisture resistance.

4 USES / TYPICAL APPLICATIONS.

- * For protection of insulated electric cable joints.
- * For protection of wires from corrosive gas and ultra violet rays.
- * As heat resistant corrosion protection material.
- * For fixing rotating machine coils.

5 IDENTIFICATION / TYPES / SIZES.

CHARACTERISTIC	UNIT	VALUE
<i>Thickness</i>	mm	0,31
<i>Width</i>	mm	10 - 250
<i>Length</i>	m	10 - 15
<i>Core Diameter</i>	mm	31

CABLE MATERIALS

6 TECHNICAL CHARACTERISTICS.

PROPERTY	UNIT	VALUE	TEST METHOD
<i>Thickness</i>	mm	0,31	ASTM D 1000
<i>Tensile Strength</i> (at 20°C) (after heating)	N/cm	21,16	ASTM D 882
	N/cm	20	ASTM D 882
<i>Elongation</i> (at 20°C) (after heating)	%	594	ASTM D 882
	%	337	ASTM D 882
<i>Breakdown Voltage</i> (at 20°C) (after immersion in oil) (after heating)	kV	13,2	ASTM D-149
	kV	13,8	ASTM D-149
	kV	13,7	ASTM D-149
<i>Volume Resistivity</i>	ohm-cm	1,44 x10exp15	ASTM D-257
<i>Self-Amalgamating Strength</i> (at 20°C) (at 200°C, 24 hours)	N	41	Nitto method*
	N	39,2	
<i>Heating Loss</i> (at 200°C, 24 hours)	%	5,22	Nitto method*

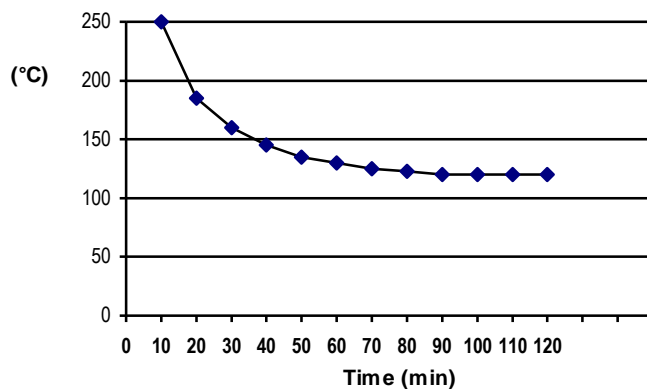
* Nitto test method is available on request.

7 INSTRUCTIONS FOR USE.

1. Remove all dirt from the cables using a dry cloth.
2. Wind the tape while peeling off the liner, around the object with a 50% overlap and approximately 100% stretch (the tape width will become narrower by one quarter).
- 3 After completion of step 2 the end of the tape should be pressed down firmly and not stretched in order to maximise the self-fusing property of the tape.

NOTE: By the curing process properties such as dielectric dissipation factor and breakdown voltage are consequently stabilized. Curing is the most desirable method to achieve perfect self-fusion. (Standard curing condition: 16 hrs x 200°C).

Relation between Curing Temperature and Time to achieve 90% self-fusion:



CABLE MATERIALS

8 PACKAGING.

ARTICLE	WIDTH* mm	LENGTH* m	ROLLS / CARTON	ROLLS / LAYER	ROLLS / PALLET
N° 66	19	15	150	1500	3000
	25	15	100	600	1800
	40	15	70	420	1260

* Other sizes are available on request.

9 PRECAUTIONS.

All products manufactured by NITTO are guaranteed to be free from defect at the time of shipping when tested according to NITTO specifications. Properties of the products are susceptible to change due to various influences such as composition and condition of the substrate, impurities in or on the substrate, temperature and humidity of storage and the surrounding environment during application, etc. When the NITTO product is used in combination with other materials, 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.

10 STORAGE / LIFETIME.

Store in the original packaging in a cool and dark place, humidity (40 to 80 % RH).
Under these conditions the product can be kept for 12 months.

All technical data given is based on averaged results and should not be used for any specification purpose. Detailed description of NITTO's testmethods are available on request.