

### 1 - CONSTRUCTION

- Based on a tape Teryl / Cetaver with slevedges (unlike cut tape).
- WRAP : Polyester yarn.
- WEFT : Continuous glass yarn E.
- Coated with a class F resin charged with conductive products, which gives the tape a superficial determined and regular resistance.



### 2 - CHARACTERISTICS

SPECIFICATION	UNIT	TS15	TS10	TS09	
Width	mm	20 - 25	20 - 25	20 - 25	
Tolerance on Width	mm	± 1	± 1	± 1	
Thickness	mm	0.08	0.10	0.12	
Tolerance on Thickness	mm	- 0.01 + 0.02	- 0.01 + 0.02	- 0.01 + 0.02	
Weight coated tape	g/m <sup>2</sup>	60 ± 10	70 ± 10	95 ± 10	
Weight unbleached tape Wrap = Polyester - Weft = Glass	g/m <sup>2</sup>	28 - 22 ± 2	30 - 24 ± 2	40 - 38 ± 3	
Nb Yarns Wrap - Weft	/cm	29 - 18 ± 1	29 - 16 ± 1	24 - 15 ± 2	
Breaking Resistance	N/cm	> 100	> 100	> 140	

#### SUPERFICIAL ELECTRIC RESISTANCE

SPECIFICATION	UNIT	750	1500	2500	3500	5000
Tolerance	Ohm/cm <sup>2</sup>	500 to 750	750 to 1500	1500 to 2500	2500 to 3500	3000 to 5000

### 3 - APPLICATIONS

#### - CABLES:

This tape is used on the conductor in order to by-pass vacuums.

#### - ROTATING MACHINES.

For rotating machines of medium voltages from 1 to 16KV, it is recommend to use conductive products ( paint, tape, etc...)

This tape is particularly suitable for both under vacuum and pressure impregnation systems. Partial (bobbins or bars only). Global ( bobbins sets and magnetic circuits). The tape is used on straight parts of bars or sections and is compressed simultaneously with the mica insulation. It brings their surface at the same electrical level (equipotential surface ). In order to absorb the electricity created by the electrical field of the rotor, which avoids sparks ( brusch discharges ). This tape allows to improve the measure of the dispersal factor ( delta tangent ).

#### - USE OF PAINTS AND THEIR DISADVANTAGES.

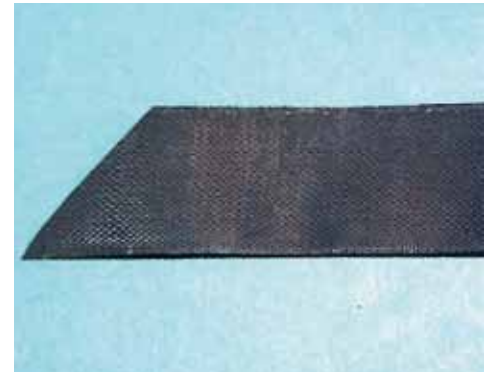
- The applied thickness is irregular.
- Risks for hygiene and security. They settle in the pots.
- Varying concentration during its application.



We recommend to protect them from heat, humidity and at an ambient temperature.

**3- ADVANTAGES**

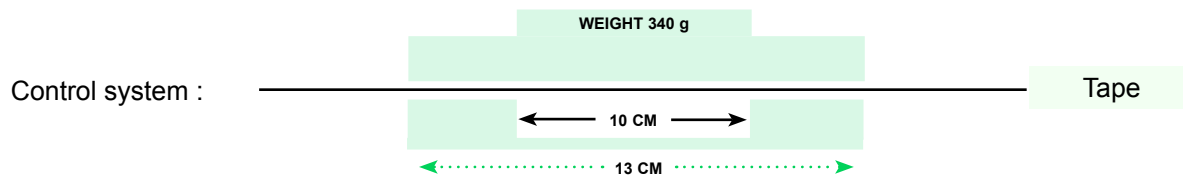
- Good resistance to water, little coming off on wet hands.
- Good mechanical resistance.
- Good resistance to EPOXY and POLYESTER styrene resins.
- Good resistance to ageing in heat conditions as our tape is made of 50% glass yarns.
- Good delta tangent after impregnation and ageing even for motors > 10 KV.



**4 - CONTROL**

- SHRINKAGE WARP DIRECTION: 1 hour at 120°C. Tests are made at the beginning of each production. Specifications: average rate 3% with a tolerance of + 1% and -2%.
- THICKNESS: Measured with a micrometer touch of diameter 14 mm and under a pressure of 49 millibars.
- MEASURE of SUPERFICIAL ELECTRICAL RESISTANCE: The tape is put on 2 copper bars of a section of 15 x 15 mm and placed at a distance of 10 cm. These 2 bars are put on 2 non conductive plates.
- Then a non conductive plate of a total weight of 340 grs is put on top of the tape.
- NOTA: The superficial electrical resistance is measured on the tape before taping.

Resistance : 
$$\frac{\text{Resistance in ohm read of the Ohmmeter} \times \text{Width of the tape in cm}}{\text{Distance in cm between the cooper bars}}$$



**5 - PRESENTATION**

- Conditioning:  
Roll on cardboard reel of inside diameter 40 mm..
- Length per roll : 50 M - 75M or 100M.
- Colour :black
- Others conditionings: please question us.



We recommend to protect them from heat, humidity at an ambient temperature.