

## 1 - CONSTRUCTION

- 100% "POLYESTER" fibre.
- Needled fibres assembled by felting.
- Without binder, fibres are heat stabilized to avoid heat shrinkage .

### 1.1- PRE-PREG

On request, we can make a stage B impregnation of a class F resin.

- The % of resin is  $\geq 70\%$  of the felt's weight.
- They are presented cut at length or small roll and packed in a waterproof aluminised bag and must be stored in a cold room (lifetime 6 months).

#### 1.1.1 Heat-setting

The heat-setting temperature in general is the same on site or in workshop.

In workshop the machine is put in an oven and on site it is put under the tarpaulin with one or two heat blowers.

The heat-setting time depends on each user but in general it takes 12 h for the temperature to increase ( $10^{\circ}\text{C}$  / hour) and it takes 12 h at  $130^{\circ}\text{C}$  for the heat-setting.



## 2 - CHARACTERISTICS

### - FELT

SPECIFICATION	UNIT	TFT 15	TFT 30	TFT 60		
- Average weight	$\text{g/m}^2$	150	300	600		
- Tolerance on weight	%	- 5 + 10	- 5 + 10	- 5 + 10		
- Thickness	mm	1,5	3,0	4,0		
- Tolerance on thickness	mm	+ - 0,3	+ - 0,3	+ - 0,3		
- Breaking resistance length	N/5cm	> 120	> 300	> 900		
- Breaking resistance width	N/5cm	> 200	> 650	> 1200		
- Temperature of use	$^{\circ}\text{C}$	155	155	155		
- Width of fabrication	mm	1000	1000	1000		

### - FIBRE

- Resistance to hydrolysis	excellent	- Loss of breaking resistance:	
- Resistance to wearing out	very good	- Heated at $175^{\circ}\text{C}$ during 5 H	
- Tensile strength	good	- Heated at $175^{\circ}\text{C}$ during 78 H	6 %
- Sticking point	$240^{\circ}\text{C}$	- Action on organic acids	30 %
- Melting point	$260^{\circ}\text{C}$	- Action on phosphoric acids	none
- Burns but does not keep the fire going	yes	- Action on fluorhydric acids	none
- Welding felt on felt	yes	- Action on organic solvents	none
- Possibility to heat pre-forming	yes	Chlorinated hydrocarbons, alcohols,	none
- Moisture absorption at R.H 65 % and $25^{\circ}\text{C}$	0,4 %	ketones, aldehydes, ethers, esters.	none

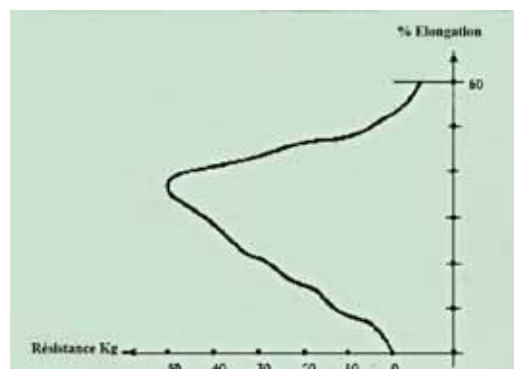
Type of product : Superpolycondensat

Material : Polyethylene Terephthalate

### SUPPLE AND ABSORBING FELT

## TESTS :

- **THICKNESS** : it concerns ref TFT15 - TFT30 - TFT60  
Measured under a pression of 5 mbar with surface of  $\varnothing 35$  mm.
- **RESISTANCE** :  
Made with samples of felt cut lengthways of 5 cm put on test tubes.
  - Distance between jaws = 20 cm
  - Pulling speed 100 mm / minute.



### 3 - APPLICATIONS

- Stuffings, fillings, taping, varnishes or resins support.
- Composition of cables and sections insulations.
- Impregnation under vacuum.

NOTA: After impregnation and curing, it becomes a compact block of fibres

- resins without any risk of delamination.
- Great absorption power.
- Avoids resin leaking.
- Combined with our CETAVER tapes or our mixed TERYL / CETAVER tapes, it allows a new type of insulation.

TERYL = Polyester tapes.

CETAVER = Glass tapes ( silionne ).

#### - CONCERNED INDUSTRIES :

Big electrical equipment rotor, electrical motors, transformers, cables.  
Manufacturers of complex, varnished or impregnated cloths.



### 4 - PRESENTATION

- Width of fabrication : 1 M.
- Cutting widths : 10 - 15 - 20 - 30 - 40 - 50 - 160 mm.  
others widths : please question us.
- Colour : white.
- Conditioning : Roll and roll with a brown wrapping paper between layers for ref TFT 15 in small widths.
- Length per roll : 100 M.
- Length per roll : TFT 15 and tft 30 = 20M  
TFT 60 = 10M



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