

# GUARANTEES

As one of our valued customers, we think it is important that you know exactly what you can expect from SATMA PPC, and the high level of customer satisfaction we strive for in everything that we do. That is why we created our Customer Guarantee.

We warrant that all our products meet all technical specifications mentioned in our catalogue.

The following guarantees apply to all our products for six months from the shipping date provided that they have been stored in the original packing in a room with low relative humidity.

## Capacitance:

The guarantees of capacitance deviation inside each roll around the average nominal capacitance are statistically defined for 95% of the measurements carried out according to our test methods.

Foil Type	Max. deviation around the nominal capacitance ( $\pm 2$ sigma)	Max. deviation around the average capacitance ( $\pm 2$ sigma)
Cathode	$\pm 15\%$	$\pm 10\%$
Etched	$\pm 10\%$	$\pm 7\%$
Formed	$\pm 10\%$	$\pm 7\%$

## Dielectric characteristics for formed foils:

The time T (sec) to reach  $V_n$  (Volt) is less than  $V_n/3 + 15$ .

For 95% of the measurements carried out, the maximum stabilized voltage  $V_m$  is greater than or equal to  $V_n$ .

## Hydration resistance for formed foils:

The rise time to reach  $V_n$  after boiling is less than 60 sec.

## Length of rolls:

The tolerance of the length shown on the packing slip is  $\pm 1\%$ .

## Thickness:

The thickness tolerance around the nominal thickness and for 95% of the measurements is  $\pm 8\%$  for anode foil,  $\pm 15\%$  for cathode foil.

## Mechanical characteristics:

For 95% of measurements, the bending and bursting strength are higher or equal to the minimum values shown in the different tables.

## Chloride content:

Chloride content of all foils is lower than 0.5 mg per active square-meter (1 mg per geometrical square-meter).

## Surface aspect:

For all foils, the appearance of one roll may be slightly different from another. They may look different because of variances in raw foil, production process, etc. Minor defects such as colour variation, spots, hydroxide deposit, pinholes, wrinkles, non-uniform appearance, etc...shall not be reasons for rejection as long as they are not proven to be electrically and/or mechanically harmful to the capacitor.

## Storage and handling:

It is recommended that the products should be stored in their original packaging and protected from sunlight, oil, humidity or any chemical agent.

The handling of the foil should be done with protective gloves to avoid any further corrosion or negative effects in capacitors.

SATMA PPC cannot accept any responsibility for damage or impact on capacitor performance in case of failure to take such precautionary measures.