

The PVC battery separator was developed for the first time in India under the brand name MICROTEX with their own know how and with indigenously designed machinery 50 years ago. The plant and machinery comprise sintering machines and other electrical installations, with own captive power generators, for the smooth and automatic production of over a hundred million separators per annum, the largest and most renowned manufacturers of PVC separators in India.

MICROTEX PVC separators are manufactured in both standard and custom sizes for automotive and industrial battery application. Every separator produced is visually inspected before being packed. Physical and chemical testing is done batch wise at CECRI CSIR, Chennai. Routine checks made at key stages along the manufacturing process maintain MICROTEX separators' constant high quality

MICROTEX separators have proven themselves over 50 years of use. Five decades of experience and modern production methods and facilities have made MICROTEX the leading battery separator supplier in India. The key to their leading position in the separator industry is technological innovation, quality and service.

MICROTEX separators, combining the outstanding characteristics of low electric resistance, chemical cleanliness, higher porosity, Low pore size, superior corrosive resistance and with minimum level of oxidizable organics, make themselves extremely usable for automobile, traction, stationary, train lighting, Locomotive starting applications and all other lead acid batteries.

## Finished PVC separators are tested to IS spec parameters as below

SI No	Property	Requirement	Limit as per Specification	Typical Values
1	Chloride Contents	MG / 100 G of Separator	≤30	0.4 mg / 100 gm
2	Iron contents	MG / 100 G of Separator	≤60	11.2 mg / 100 gm
3	Manganese Content	MG / 100 G of Separator	≤1.5	Nil
4	Maximum predominant Pore Size	Micrometer	≤50	19 um
5	Wettability	To pass the test ( Seconds )	≤60	4 seconds
6	Volume Porosity	Percent	≤30	42.10%
7	Impact Strength	To pass the test ( mm Height)	≤200	200 mm
8	Inherent volume	% ge	55-57	55.70%
9	Acid test for colour change	-----	-----	No colour change

Microtex Manufacture following PVC Separators for after Markets and In-house use

- Width** of 76mm,115mm,148mm,152mm,185mm Max 300mm
- Thickness** of 0.05 mm to 4.0mm
- Types:** Ribbed, Plain
- Production Capacity** : **12.15 Million** : Standard Size Separators Per Month



The PVC battery separators are micro porous diaphragms placed between the negative and positive plates of lead acid batteries to prevent any contact between them to avoid internal short circuit but at the same time allow free circulation of the electrolyte. This kind of Separators has large pore size and lower electrical resistance. The PVC separator are uniform in quality, free from holes, broken corners, splits, embedded foreign material, surface rupture, physical defects, etc. These separators have a very low electrical resistance which reduces internal loss saving on electric energy and improving battery performance. Their high porosity ensures easy diffusion of electrolyte and movement of ions guaranteeing battery performance even at high discharge rates. Being completely non-reactive to acids, active metals and emitted gases, It enhance the active life of the battery.

Because of these tremendous benefits the PVC separators are exclusively used in Flooded OPzS cells and Flooded Nickel Cadmium Cells.

## TECHNICAL DATA SHEET OF MICROTEX PVC SEPARATORS

Srl No	Item	Description
1	Name of the Item	PVC Battery Separators
2	Supply Form	Cut sizes and Roll Form
3	Sizes	
a	Standard	136x148x1.65mm
b	Special Sizes	As per Customer Requirement
		Width ranging from 110mm to 295mm
		Thickness ranging from 0.9mm to 3.6mm
c	Sizes of Regular Battery Separators	100x148x1.65mm 125x148x1.65mm 155x148x1.65mm 120x148x1.9mm 136x148x1.9mm 155x148x1.9mm 235x148x1.9mm 250x148x1.9mm 230x152x1.9mm 240x152x1.9mm 250x152x1.9mm 215x168x1.9mm 198x156x0.9mm 148x148x1.2mm 148x148x1.7mm 125x148x1.3mm 125x148x1.4mm 125x148x1mm
d	Tolerance on Height and width	, +/- 1mm
e	Tolerance on Thickness	, +/- 0.1mm
4	Separators Specification	Chemical and Electrical properties meets to latest IS 6071
5	Standard Packing of Separators	Initially packed in Poly Ethylene covers and packed in Carton Boxes

Manufactured by:

# Microtex Energy P Ltd.

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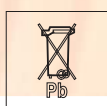
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