

ABSTRACT

The object of the present invention is to provide a nonwoven fabric for separators of non-aqueous electrolyte batteries which is superior in adhesion to electrodes, causes no breakage of the separator and neither slippage nor space between electrode and the separator at the time of fabrication of battery, provides superior battery processability such as rollability with electrodes, causes no internal short-circuit due to contact between electrodes caused by shrinking or burning of the nonwoven fabric even when electrodes generate heat owing to external short-circuit, whereby ignition of the battery can be inhibited, has no pin holes and is superior in retention of electrolyte and penetration of electrolyte, and which can give non-aqueous electrolyte batteries superior in capacity, battery characteristics and battery storage characteristics. Specifically, the nonwoven fabric for separators of non-aqueous electrolyte batteries according to the present invention has a thickness non-uniformity index (Rpy) of 1000 mV or less or a center surface average roughness S_{Ra} of 6 μ m or less in whole wavelength region as measured using a tracer method three-dimensional surface roughness meter.