ABSTRACT

The invention relates to a lithium-ion accumulator precursor comprising

- one or more electrode modules each formed by

(a) at least one textile positive electrode precursor, composed of a textile metallic structure, fluorinated or oxyfluorinated at the surface, based on one or more transition metals from groups 4 to 12 of the Periodic Table of the Elements,

(b) a polymeric separator, impregnated with a solution of a lithium salt in an aprotic organic solvent, said separator covering the surface of the positive electrode precursor,

(c) a negative electrode precursor forming a solid, preferably continuous, matrix which encloses the structure formed by (a) and (b), and

- at least one sacrificial metallic lithium electrode, separated from the electrode module or modules by a polymeric separator impregnated with a solution of a lithium salt in an aprotic organic solvent,

characterized in that the ratio of the geometric surface area of the lithium strip to the cumulative geometric surface area of all of the textile positive electrode precursors is within the range from 0.05 to 0.33, preferably from 0.1 to 0.25.

The invention also relates to a method for producing an accumulator from such a precursor.