

Abstract

HEMOSTATIC TEXTILE

The present invention is directed to a hemostatic textile, comprising: a material comprising a combination of glass fibers and one or more secondary fibers selected from the group consisting of silk fibers; ceramic fibers; raw or regenerated bamboo fibers; cotton fibers; rayon fibers; linen fibers; ramie fibers; jute fibers; sisal fibers; flax fibers; soybean fibers; corn fibers; hemp fibers; lyocel fibers; wool; lactide and/or glycolide polymers; lactide/glycolide copolymers; silicate fibers; polyamide fibers; feldspar fibers; zeolite fibers, zeolite-containing fibers, acetate fibers; and combinations thereof; the hemostatic textile capable of activating hemostatic systems in the body when applied to a wound. Additional cofactors such as thrombin and hemostatic agents such as RL platelets, RL blood cells; fibrin, fibrinogen, and combinations thereof may also be incorporated into the textile. The invention is also directed to methods of producing the textile, and methods of using the textile to stop bleeding.

Figure 1