ABSTRACT

Disclosed is a self-heating thermal-insulation multilayer film comprising a structure of at least three layers, which from outside to inside are respectively: an outer layer (1) formed of an air permeable material; a heat-generating layer (2) loaded with heat-generating composition (21) that generates heat on contact with air, at least an upper sealing surface of the heat-generating layer that is in contact with the outer layer being formed of an air permeable material; and an thermal-insulation layer (3) formed of a material having waterproof and thermal-insulation properties. The present self-heating thermal-insulation film is structurally simple, is not constrained by environmental resources, does not require energy supply from an external energy source, is safe and stable, uniformly generates heat, and can effectively prolong heating time and reduce peak heating temperature. The present self-heating thermal-insulation film can be manufactured into a three-dimensional face mask, a face mask, or an eye mask for use on facial skin to improve blood circulation, enlarge facial pores, so as to clean skin dirt and sebaceous secretion. When used in combination with a traditional nourishing face mask or skincare product, the absorption of the effective ingredients in the traditional face mask or skincare product is improved, so the amount of skincare product used is reduced and skincare effect is enhanced. In addition, the use is safe and low-cost.