

METHOD AND FACILITY FOR THE CONTINUOUS VITRIFICATION OF FIBROUS MATERIALS

ABSTRACT

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The present invention relates to a process and a facility for the continuous vitrification treatment of fibrous materials, and in particular of asbestos and/or of asbestos-containing materials.

According to the invention, this process comprises the following steps:

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- a bath of molten glass at a temperature of 1300°C to 1600°C is prepared;

- introduced into said bath of molten glass are said fibrous materials and optionally melting additives chosen so that said bath has, after addition of these fibrous materials and melting additives, the following composition:

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- SiO₂: between 30% and 55% by weight;

- FeO: between 25% and 45% by weight;

- alkali and alkaline-earth metal oxides: between 15% and 25% by weight;

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- an oxidizer and a fuel are injected under pressure into said molten bath by means of at least one lance, one end of which is immersed in said bath; said oxidizer being introduced in a molar amount greater than or equal to the molar amount of fuel needed to maintain the temperature of the bath between 1300°C and 1600°C; and

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- the temperature of at least one portion of the molten glass is lowered so as to render it solid.

Application: Treatment of fibrous materials, in particular waste asbestos materials

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Figure 1