

#### Abstract:

##### INPUT STOCK FOR USE FOR PRODUCING FIBRE-CERAMIC COMPOSITE

The invention relates to an input stock for use for producing a fibre-ceramic composite, the input stock containing 40 wt.% to 55 wt.% inorganic fibres made of  $\text{SiO}_2$  and/or  $\text{Al}_2\text{O}_3$ , 40 wt.% to 50 wt.% inorganic oxides, and 5 wt.% to 15 wt.% water, wherein the inorganic oxides contain at least 60 wt.%  $\text{SiO}_2$  and at most 25 wt.%  $\text{Al}_2\text{O}_3$ . For this purpose, inorganic fibres are brought into contact with a suspension containing water, ground inorganic oxides and preferably polyvinyl alcohol. At a later point in time, the input stock can be sintered at a temperature of approximately 1000°C, in particular at a temperature from 900 to 990°C. The fibre-ceramic composite produced in this manner contains inorganic fibres and an oxidic ceramic matrix, wherein the inorganic fibres consist of  $\text{SiO}_2$  and  $\text{Al}_2\text{O}_3$ , wherein 100% of the the oxidic ceramic matrix consists of inorganic oxides, wherein the proportion of  $\text{SiO}_2$  is at least 60 wt.% and the proportion of  $\text{Al}_2\text{O}_3$  is at most 25 wt.%.

Figure 1