Abstract

High-temperature foams with reduced resin absorption for producing sandwich materials

The present invention relates to the field of producing high-temperature foams, such as are used in the construction of aeroplanes, ships and rail and other vehicles, in particular further processed into sandwich materials by joining with two outer layers. To this end there is provided a novel process for producing high-temperature foams (HT foams) which are particularly suitable for producing such sandwich components for lightweight construction. This process achieves an improvement in the processability of the HT foams produced according to the invention and a weight reduction of the sandwich materials. The HT foams are furthermore rigid particle foams which are markedly more economic to produce than rigid block foams.

The present invention in particular brings about a reduction in resin absorption in fibre composite processes through a process-related optimization of the surface constitution.

Figure 1