

FORCED DIFFUSION TREATMENT FOR AN INSULATING PART MADE FROM EXPANDED SYNTHETIC FOAM

ABSTRACT

A process for the forced diffusion treatment of a thermally insulating part (40) made of expanded synthetic foam, comprising:

during a discharge stage, heating the insulating part to a discharge temperature greater than ambient temperature and simultaneously exposing the insulating part to a gas atmosphere exhibiting low partial pressures for molecular nitrogen, molecular oxygen, carbon dioxide and the gases having a coefficient of diffusion into the expanded synthetic foam which is greater than or equal to that of molecular nitrogen,

terminating the discharge stage when the accumulated partial pressures of molecular nitrogen, molecular oxygen, carbon dioxide and the gases having a coefficient of diffusion into the expanded synthetic foam which is greater than or equal to that of molecular nitrogen in the insulating part is less than a predetermined threshold.

Figure to be published: 4