Thus, in a first aspect, the present disclosure relates to a method for the preparation of a composite article comprising aerogel particles and a foam, the method comprising:

- providing a foam-containing article comprising a foam,
- providing an aerogel composition comprising an aerogel powder and an organic solvent (A),
- combining the foam-containing article and the aerogel composition, and
- partially or completely removing the organic solvent (A) to obtain the composite article.

The present disclosure furthermore relates to a composite article obtainable by this method.

In addition, the disclosure relates to a composite article comprising aerogel particles and a foam, wherein the composite article is obtainable by impregnating, soaking, or injecting an aerogel composition comprising an aerogel powder and an organic solvent (A), and optionally inorganic opacifiers and/or mineral fillers, into a foam-containing article comprising a foam, and partially or completely removing the organic solvent (A) to obtain the composite article.

In still a further aspect, the present disclosure relates to a composite article comprising aerogel particles and a foam, wherein one or more of the following requirements (i) to (v) are fulfilled:

(i) the weight ratio of the one or more aerogels to the one or more foams (aerogel/foam) in the composite article is 1:8 or higher;

(ii) the composite article has a thermal conductivity at 0°C of not higher than 0.030 W/m·K. Preferably, the thermal conductivity at 0°C is not higher than 0.028 W/m·K, more preferably not higher than 0.026 W/m·K, even more preferably not higher than 0.024 W/m·K, still more preferably not higher than 0.022 W/m·K;

(iii) the composite article has a thermal conductivity at 20°C of not higher than 0.032 W/m·K. Preferably, the thermal conductivity at 20°C is not higher than 0.030 W/m·K, more preferably not higher than 0.028 W/m·K, even more preferably not higher than 0.026 W/m·K, still more preferably not higher than 0.024 W/m·K;

(iv) the composite article has a thermal conductivity at 40°C of not higher than 0.034 W/m·K. Preferably, the thermal conductivity at 40°C is not higher than 0.032 W/m·K, more preferably not higher than 0.030 W/m·K, even more preferably not higher than 0.028 W/m·K, still more preferably not higher than 0.026 W/m·K.