

Title (en)

LOW DENSITY NONWOVEN GLASS FIBER WEB

Title (de)

GLASFASERVLIESTOFFBAHN MIT GERINGER DICHTER

Title (fr)

TOILE DE FIBRE DE VERRE NON TISSEE A FAIBLE DENSITE

Publication

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Application

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- US 82244004 A 20040412

Abstract (en)

[origin: WO2004094038A1] The present invention relates to wet laid nonwoven glass fiber webs, filter media formed of or containing wet laid nonwoven glass fibers webs, and methods of making the same using a wet laid processing technique. The filter media are particularly advantageous in that it has been discovered that adjusting the pH during wet laid processing will produce a glass fiber web having improved filtration properties. In particular, neutralizing the pH of a slurry containing mainly glass wool fibers unexpectedly yields a non-electret, filter media that has a gamma value of at least about 14, which is a significant improvement over non-electret, wet laid glass filter media currently on the market which have been shown to have a gamma value that does not exceed 13. The nonwoven glass webs prepared according to the present invention preferably contain a combination of glass wool fibers and chopped glass fibers. The resulting glass fiber web can be used alone, or can be combined with additional fiber webs, to form a filter media which can be used in a variety of filtering applications.

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