

CHARACTERIZATION OF RELEVANT PROPERTIES OF CARTRIDGE FILTERS

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Abstract

Determination of the optimal filtration system for purposes of given application demands knowledge of input data, as also knowledge of precise characteristics of filter elements which can be applied in that process. There is a large number of significant parameters of filtration process which can be taken into account and brought in correlation with characteristics of filter elements. Many methods is available for determining the input parameters of filtration process, and from their accuracy depends the quality of data acquired. For measuring the performances of cartridge filters there are different methods whose accuracy determines level of accordance with real data in praxis. Procedure of defining the filtration process means defining the each filtration step and represents significant part of such technological process.

This paper deals with the characterization of the relevant characteristics of cartridge filters that best correlate the filtration performance of cartridge filters with filtration requirements in order to achieve optimal results of each filtration step and the filtration process as a whole. A real practical example of three-stage filtration of drinking water shows the correctness of the procedure of characterization of the relevant properties of cartridge filters.

Keywords

Cartridge filters, filtration, characterization, process defining.