

## TO BE RESCINDED

3745-42-09

**Requirements for filter sand.**

## (A) Applicability.

- (1) No person shall install or replace sand-filter sand without first providing the director with written certification that the standards identified in this rule are met. The certification statement shall be obtained from the sand manufacturer or any professional engineer and shall be supported by laboratory analysis.
- (2) This rule shall apply to owners and operators of the following treatment works:
  - (a) Conventional subsurface sand filters;
  - (b) Conventional surface sand filters;
  - (c) Recirculating sand filters; and
  - (d) Other similar sand filter technologies.

## (B) Owners and operators of facilities described in paragraph (A)(2) of this rule shall use only sand that has:

- (1) Undergone a sieve analysis and met the criteria of one of the following standards:
  - (a) ASTM C136, "Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates;" or
  - (b) ASTM D451, "Standard Method for Sieve Analysis of Granular Mineral Surfacing For Asphalt Roofing Products;"
- (2) An effective size and uniformity coefficient, in conformance with table B-1 of this rule:

Table B-1

Sand filter technology	Effective size (millimeters)	Uniformity coefficient
Conventional subsurface sand filters *	0.4 to 1.0	less than 3.0

Conventional surface sand filter *	0.4 to 1.0	less than 3.0
Recirculating Sand Filter *	1.2 to 2.5	less than 2.0

\*Sand shall be washed and free of clay and silt to minimize the amount of fines in the sand.

- (3) Been quantified using ASTM C117, "Standard Test Method for Materials Finer than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing." The percentage of the material passing the seventy-five-micrometer sieve shall not exceed 1.5 per cent of the total sample weight.
- (4) Been analyzed using ASTM D4318, "Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils," and classified as nonplastic.

Effective:

R.C. 119.032 review dates: 01/20/2009

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Certification

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Date

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Statutory Authority: 6111.03  
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