DIN EN ISO 21809-2 Epoxy Coatings for Buried or Submerged Pipelines / Particle Size of Epoxy Powder / Testing Equipment

Description

A.6 Particle size of the epoxy powder
A.6.1 Equipment
The equipment required shall consist of the following:
A.6.1.1 Air-jet sieving unit, with vacuum cleaner attachment and 150 Âµm and 250 Âµm screens.
A.6.1.2 Balance, accurate to 0,01 g.
A.6.2 Procedure
A.6.2.1 Weigh the sieve and one screen to the nearest 0,01 g. Place approximately 20 g of epoxy powder onto the top of the screen, and record the weight of the powder to the nearest 0,01 g.
A.6.2.2 Place the sieve into the sieving unit, cover the unit, and secure it. Operate the sieving unit for 3 min and remove the cover.
A.6.2.3 Remove the sieve, and weigh it to the nearest 0,01 g.
A.6.2.4 Calculate the percentage of epoxy powder, Wep, retained on the screen as given in Equation (A.2):

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$$w_{ep} = \frac{M_r - M_s}{M_p} \times 100 \quad (A.2)$$

where

M_p is the initial mass of powder placed on screen, expressed in grams;

M_r is the final mass of sieve, screen and retained powder, expressed in grams;

M_s is the initial mass of sieve and screen, expressed in grams.



Precise Balance

- 0.1 mg resolution

- 220 g Capacity



Air Jet Sieving Unit

- 150 Âµm and 250 Âµm screens
- With vacuum cleaner
- Digital display
- Vibration level adjustment
- Digital time setting

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Category

1. Equipment for Standards
2. Standards