Centrifugal Tube

Centrifugal Tube is used for the determination of content of solid particles in inspection medium for magnetic particle examination. The concentration of particles in the suspension is a very important parameter in the inspection process and must be closely controlled. The lines on Centrifugal Tube's is to help you easily and accurately measure the magnetic bath concentration. The particle concentration is checked after the suspension is prepared and regularly monitored as part of the quality system checks. Generally, concentration checks are performed every eight hours or at every shift change. However the procedure and parameters of the settling test is set out in ASTM E1444 & E709 standards

Salient Features :

- Easy and accurate measurement
- All our tubes are individually calibrated
- Monitor contamination level of the bath
- We have different least count centrifugal tubes for visible & fluorescent
- We also provide centrifugal tube with least count of 0.05 ml & 0.1 ml.

Order Part no :

- JCT- (F)
- JCT- (V)
- JCT- (S)

Kit Contains :

- Centrifugal Tube
- Stand (if ordered)

To check the concentration,

- Stir the particle suspension for minimum 30 mins to ensure uniform distribution of particles throughout the bath.
- Place 100-mL sample of the agitated suspension in a centrifuge tube with a graduated stem in 0.05-mL increments for Fluorescent baths and 0.1 mL for non-Fluorescent baths.
- Demagnetize the sample and allow the tube to stand undisturbed for a settling time of at least 60 min if using petroleum distillate or at least 30 min for conditioned water suspension.
- Read the volume of settled particles. The settling volume should be between 0.1 to 0.4 mL per 100mL for fluorescent magnetic particle and 1.2 to 2.4 mL per 100mL for non-fluorescent particle and for dual-colored particles, the recommended settling volume should be determined by the performance requirements and lighting environment of a given application as recommended by the manufacturer.
- If the concentration is out of the tolerance stated in the written procedure add particles or suspension vehicle, as required, and re-determine the particle concentration.

JMD Brochure CT 2026/01

* Subject to terms & conditions Apply

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