Centrifugal Tube

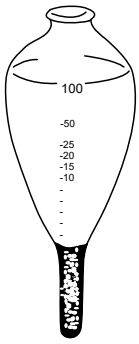
Centrifuge Tube is used for the determination of content of solid particles in inspection medium for Magnetic Particle examination. The concentration of particles in the suspension is a very important parameter in the inspection process and must be closely controlled. The particle concentration is checked 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.

Salient Features:

- Easy and accurate measurement
- Monitor contamination level of the bath
- All our tubes are individually calibrated
- 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

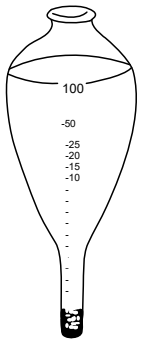
To check the concentration:

- Agitate the particle suspension a minimum of 30 min 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 100 ml for fluorescent magnetic particle and 1.2 to 2.4 ml per 100 ml 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.



Visible ACT-V
Least Count = 0.1 ml

Stand ACT-5



Fluorescent ACT-F
Least Count = 0.05 ml

Specifications Compliance:

- ASTM E709
- ASTM E1444
- ASME Section V Article 7

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