

## TECHNICAL DATA SHEET

# CENTRIFUGE TUBES

## *For Magnetic Particle Testing*

### DESCRIPTION

Centrifuge Tubes are used to ensure bath levels are correct. It measures the concentration of magnetic particles in the bath. The centrifuge tubes have been calibrated so that when they are filled up to their graduation mark and left to stand, the particle concentration can be determined quickly and accurately. The use of appropriate centrifuge tubes is a core part of the regular maintenance required for magnetic particle baths and provides confirmation that the bath meets the sensitivity standards for NDT use.

### DIRECTIONS

**Please Note:** *This action is required daily, each time before using the bath.*

1. Let the pump motor run for up to 30 minutes to agitate the suspension.
2. Flow the bath mixture through the hose and nozzle for a few moments to clear the hose.
3. Fill the centrifuge tube to the 100ml line.
4. Place the tube in the stand. Let the tube stand in a vibration-free area to allow particles to settle. Settling time is 30 minutes for a water bath or 60 minutes for an oil bath.



### COMPLIANCE SPECIFICATIONS

- ASTM E709-08 -15
- Pratt & Whitney Aircraft Spec No. MPM, Chg H Appendix A
- General Electric Spec No. P3TF9-S4
- McDonnell Douglas Spec No. P.S. 21201 Rev J
- ASME Boiler & Vessel Code Section V
- ASTM E709-15
- ASTM E1444-16
- ASTM E3024-19

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### ACCURACY

All volumetric standards used for calibration are traceable to the National Institute of Standards and Technology with the following accuracy:

0 – 1.0 ml	+/- 0.02 ml
2ml	+/- 0.20 m
above 2 ml to 10 ml	+/- 0.50 ml
above 10 ml to 25 m	+/- 1.0 ml

### ORDERING INFORMATION

Product Code	Packaging
EQPT-5205	Glass Centrifuge tube (graduated) - Fluorescent Material
EQPT-5206	Glass Centrifuge tube (graduated) – Non-fluorescent Material
EQPT-5211	Centrifuge Stand

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Created 17<sup>th</sup> September 2021 Date Printed 5/11/2021 2:56 PM