ISO/TR 23015:2020 (E)

Fine bubble technology — Measurement technique matrix for the characterization of fine bubbles

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Abbreviated terms

5 Fine bubble characterization

5.1 General
5.2 Comparison of size and concentration indices from different sources

6 Characterization techniques

6.1 Dynamic light scattering
6.1.1 General
6.1.2 Reference standard
6.1.3 Size
6.1.4 Size distribution
6.1.5 Concentration
6.1.6 Measurement time
6.2 Methods for Zeta potential determination (electrophoretic mobility)
6.2.1 General
6.2.2 Reference standard
6.2.3 Charge
6.2.4 Zeta distribution
6.2.5 Concentration
6.2.6 Measurement time
6.3 Particle tracking analysis method
6.3.1 General
6.3.2 Reference standards
6.3.3 Size
6.3.4 Size distribution
6.3.5 Concentration
6.3.6 Measurement time
6.4 Laser diffraction methods
6.4.1 General
6.4.2 Reference standard
6.4.3 Size
6.4.4 Concentration
6.4.5 Measurement time
6.5 Resonant mass measurement
6.5.1 General
6.5.2 Reference standard
6.5.3 Size
6.5.4 Size distribution
6.5.5 Concentration
6.5.6 Measurement time
6.6 Electrical sensing zone method
6.6.1 General

6.6.2 Reference standard
6.6.3 Size
6.6.4 Size distribution
6.6.5 Concentration
6.6.6 Measurement time
6.7 Ultrasonic attenuation spectroscopy
6.7.1 General
6.7.2 Reference standard
6.7.3 Size
6.7.4 Size distribution
6.7.5 Concentration
6.7.6 Measurement time
6.8 Single particle light interaction methods
6.8.1 General
6.8.2 Reference standards
6.8.3 Size
6.8.4 Size distribution
6.8.5 Concentration
6.8.6 Measurement time
6.9 Static image analysis method
6.9.1 General
6.9.2 Reference standard
6.9.3 Size
6.9.4 Size distribution
6.9.5 Concentration
6.9.6 Measurement time
6.10 Dynamic image analysis methods
6.10.1 Reference standard
6.10.2 Size
6.10.3 Size distribution
6.10.4 Concentration
6.10.5 Measurement time
6.11 Static multiple light scattering (SMLS)
6.11.1 General
6.11.2 Reference standard
6.11.3 Size
6.11.4 Size distribution
6.11.5 Concentration
6.11.6 Measurement time

Page count: 12