

ISO 7392:2024-04 (E)

Fine bubble technology - Evaluation method for determining surface tension of ultrafine bubble dispersions

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Apparatus	2
4.1	General	2
4.2	Wilhelmy method	2
4.3	du Noüy method	2
4.4	Pendant drop method	2
5	Procedure	2
5.1	Testing environment	2
5.2	Temperature measurement	2
5.3	Handling of the sample	3
5.4	Cleaning of the measuring unit	3
5.4.1	Cleaning of the plate and ring	3
5.4.2	Cleaning of the measuring cup and syringe	3
5.5	Determination	3
5.6	Measurement of blank water	3
6	Calculation and expression of results	3
7	Test report	4
Annex A (informative) Specifications for commercially available measurement instruments		5
Annex B (informative) Feature of the measurement methods		6
Annex C (informative) Measurement results under various measuring conditions		12
Annex D (informative) Variation in surface tension of surfactant solution diluted with UFBD		16
Bibliography		20