

ISO 20480-3:2021-09 (E)

Fine bubble technology - General principles for usage and measurement of fine bubbles - Part 3: Methods for generating fine bubbles

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Examples of methods for generating fine bubbles	3
4.1	Swirling flow system (for microbubble generation)	3
4.2	Static mixer system (for microbubble generation)	3
4.3	Ejector system	4
4.4	Venturi system	5
4.5	Pressurized dissolution system (for microbubble generation)	6
4.6	Mechanical shear system	7
4.7	Micropore system	8
4.8	Surfactant addition micropore system	8
4.9	Microporous shear system	9
4.10	Heat separation system	10
4.11	Mixed vapor condensation system	11
4.12	Swirling flow system (for ultra fine bubble generation)	11
4.13	Pressurized dissolution system (for ultra fine bubble generation)	12
4.14	Static mixer system (for ultra fine bubble generation)	13
4.15	Electrolytic system	14
4.16	Ultrasound (cavitation) system	15
4.17	Other methods	15
Annex A (informative) Other examples of methods for generating fine bubbles		16
Bibliography		17
Index		18