

ISO 18487-1:2025-07 (E)

Aerospace series - Titanium tube for 35 MPa operating pressure - Part 1: Inch series

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Dimensions	2
5	Tolerances	2
6	Technical requirements	3
6.1	General	3
6.2	Composition	3
6.3	Melting practice	3
6.4	Heat treatment and delivery condition	3
6.5	Tensile properties	3
6.6	Microstructure	4
6.6.1	General	4
6.6.2	Grain size	4
6.6.3	Contractile strain ratio (CSR)	4
6.7	Surface condition and texture	4
6.7.1	Surface treatment	4
6.7.2	Surface condition	4
6.7.3	Surface texture, Ra	5
6.8	Ultrasonic inspection	5
6.9	Flarability	5
6.9.1	General	5
6.9.2	Surface contamination	5
6.10	Bending	7
6.11	Flattening	7
6.12	Deformation under pressure test	7
6.13	Impulse pressure fatigue test	8
6.13.1	General	8
6.13.2	Proof test	8
6.13.3	Pressure impulse test	8
6.13.4	Additional test	11
6.13.5	Ultimate (as per CS 25.1435) and burst test	11
7	Quality assurance	12
8	Preparation for delivery	12
8.1	Marking	12
8.2	Packing	12
Bibliography		13