

ISO 12917-1:2002-07 (E)

Petroleum and liquid petroleum products - Calibration of horizontal cylindrical tanks - Part 1: Manual methods

Contents		Page
Foreword		iv
Introduction		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Precautions	2
4.1	General	2
4.2	Internal method	2
4.3	External method	2
5	Equipment	2
5.1	Equipment as used in the ISO 7507 series	2
5.2	Telescopic rod	2
6	General requirements	2
7	Calibration procedures	3
8	External measurements	3
8.1	Introduction	3
8.2	General	3
8.3	Repetition of measurements	4
8.4	Tolerances	4
8.5	Other measurements on tank-shell plates	4
9	Internal measurements	5
9.1	General	5
9.2	Repetition of measurements	5
9.3	Tolerances	5
9.4	Other measurements on tank-shell plates	5
10	Additional measurements	6
10.1	Deadwood	6
10.2	Measurement of tilt	6
11	Other parameters	7
12	Recalibration	7
13	Descriptive data	7
14	Computation of tank capacity tables -- General rules	7
15	Effects of tilt	8
16	Systematic calculations (summary)	8

16.1	General	8
16.2	Cylindrical volume	8
16.3	Volume of the knuckle-dish ends	9
16.4	Elliptical ends	11
16.5	Spherical head	11
16.6	Deadwood	12
Annex A (normative) Tilt		13
Annex B (informative) Corrections of volume of tank table		15
Bibliography		18