

DIN EN 12007-2:2012-10 (E)

Gas infrastructure - Pipelines for maximum operating pressure up to and including 16 bar - Part 2: Specific functional requirements for polyethylene (MOP up to and including 10 bar)

Contents		Page
Foreword		4
1	Scope	5
2	Normative references	5
3	Terms, definitions, symbols and abbreviations	6
4	Design	7
4.1	General	7
4.2	Materials and components	7
4.3	Maximum operating pressure	7
4.3.1	General	7
4.3.2	Verification of the overall service (design) coefficient	8
4.3.3	Verification of the RCP criterion	8
4.4	Assembly techniques	10
4.5	Material properties for flow stopping by squeeze-off	10
4.6	Pipework inside buildings	10
5	Construction	10
5.1	Storage, handling and transportation	10
5.2	Joining	11
5.2.1	General	11
5.2.2	Fusion joining	11
5.2.3	Mechanical joints	12
5.3	Laying	12
5.4	Connection to existing systems	13
5.4.1	Static electricity	13
5.4.2	Squeeze-off	13
6	Quality control	14
6.1	Inspection prior to installation	14
6.2	Inspection during laying	14
6.2.1	Laying	14
6.2.2	Joint integrity	14
7	Pressure testing	14
Annex A (informative)	Storage, handling and transportation	16
A.1	General	16
A.2	Storage	16
A.2.1	Storage conditions	16
A.2.2	Bundles	16
A.2.3	Stacking loose straight pipes	17
A.2.4	Drums and coils	17
A.2.5	Storing	17
A.2.6	First in - first out	18
A.3	Handling	18

A.3.1	General	18
A.3.2	Handling in cold weather	18
A.3.3	Straight pipes	18
A.3.4	Coils	18
A.3.5	Drums	18
A.3.6	Uncoiling	19
A.4	Transportation	19
A.4.1	Straight pipes	19
A.4.2	Coiled pipe	19
A.4.3	Drums	19
Annex B (informative) Fusion joint integrity		20
B.1	General	20
B.2	Visual inspection criteria	20
B.2.1	General	20
B.2.2	Butt fusion guidelines for the visual examination of butt fusion joints	20
B.2.3	Electrofusion	23
B.2.4	Ancillary tooling	26
Bibliography		28