

ISO 4427-3:2007-08 (E)

Plastics piping systems - Polyethylene (PE) pipes and fittings for water supply - Part 3: Fittings

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	2
3	Terms, definitions, symbols and abbreviated terms	3
4	Material	4
4.1	PE compound	4
4.2	Material for non-polyethylene parts	4
5	General characteristics	5
5.1	Appearance	5
5.2	Design	5
5.3	Colour	5
5.4	Electrical characteristics for electrofusion fittings	5
5.5	Appearance of factory-made joints	5
5.6	Effect on water quality	5
6	Geometrical characteristics	6
6.1	Measurement of dimensions	6
6.2	Dimensions of electrofusion sockets	6
6.3	Dimensions of spigot fittings	8
6.4	Dimensions of socket fusion fittings	8
6.5	Dimensions of fabricated fittings	8
6.6	Dimensions of electrofusion saddle fittings	10
6.7	Dimensions of mechanical fittings	11
6.8	Dimensions of loose backing flanges and flange adapters	11
7	Mechanical characteristics	11
7.1	General	11
7.2	Conditioning	11
7.3	Requirements	12
7.4	Retest in case of failure at 80 °C	13
7.5	Performance requirements	14
8	Physical characteristics	14
8.1	Conditioning	14
8.2	Requirements	14
9	Chemical resistance of fittings in contact with chemicals	15
10	Performance requirements	15
11	Marking	15
11.1	General	15
11.2	Minimum required marking	15
11.3	Fusion system recognition	16
12	Packaging	16

Annex A (normative) Socket fusion fittings	17
Annex B (normative) Fabricated fittings	19
Annex C (informative) Examples of typical terminal connections for electrofusion fittings	26
Annex D (normative) Short-term pressure test method	28
Annex E (normative) Tensile test for fitting/pipe assemblies	30
Bibliography	31