Irish Standard
I.S. EN 1254-8:2012

Copper and copper alloys - Plumbing fittings - Part 8: Fittings with press ends for use with plastics and multilayer pipes

I.S. EN 1254-8:2012

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English Version

Copper and copper alloys - Plumbing fittings - Part 8: Fittings with press ends for use with plastics and multilayer pipes

Cuivre et alliages de cuivre - Raccords - Partie 8: Raccords à sertir pour tuyaux en plastique et tubes multicouches

Kupfer und Kupferlegierungen - Fittings - Teil 8: Pressfittings für den Einsatz mit Kunststoff- und Mehrschichtverbundrohren

This European Standard was approved by CEN on 11 August 2012.

EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This document (EN 1254-8:2012) has been prepared by Technical Committee CEN/TC 133 “Copper and copper alloys”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2013, and conflicting national standards shall be withdrawn at the latest by April 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

Within its programme of work, Technical Committee CEN/TC 133 requested CEN/TC 133/WG 8 "Fittings" to prepare the following European Standard:

EN 1254-8, *Copper and copper alloys — Plumbing fittings — Part 8: Fittings with press ends for use with plastics and multilayer pipes*

EN 1254 comprises the following parts under the general title "*Copper and copper alloys — Plumbing fittings*":

— *Part 1: Fittings with ends for capillary soldering or capillary brazing to copper tubes*

— *Part 2: Fittings with compression ends for use with copper tubes*

— *Part 3: Fittings with compression ends for use with plastics pipes*

— *Part 4: Fittings with threaded end connections*

— *Part 5: Fittings with short ends for capillary brazing to copper tubes*

— *Part 6: Fittings with push-fit ends*

— *Part 7: Fittings with press ends for metallic tubes*

— *Part 8: Fittings with press ends for use with plastics and multilayer pipes*

Part 7 will be the subject of future work.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

Products complying with this document may be used for the transport of water for human consumption if they comply with the relevant national, regional or local regulatory provisions applicable in the place of use.

This European Standard provides the basis for the assessment of a manufacturer's production process for products manufactured in accordance with this European Standard.

1 Scope

This European Standard specifies materials and test requirements for fittings of copper and copper alloys.

This part of EN 1254 specifies press end connections with or without plating or coating in the size range 10 mm to 110 mm for the purpose of joining plastics and multilayer pipes for use in hot and cold water systems according to EN 806, which are designed for service lifetime up to fifty years, as well as heating and cooling systems or gas systems, including fuel gas systems.

Fittings may comprise a combination of end types, specified in this European Standard, EN 1254, or other standards, providing they are suitable for the fluid / gas being conveyed.

The European Standard establishes a designation system for the fittings.

This European Standard is applicable to press fittings for joining the following plastics and multilayer pipes:

EN ISO 15874, *Plastics piping systems for hot and cold water installations — Polypropylene (PP);*

EN ISO 15875, *Plastics piping systems for hot and cold water installations — Crosslinked polyethylene (PE-X);*

EN ISO 15876, *Plastics piping systems for hot and cold water installations — Polybutylene (PB);*

EN ISO 15877, *Plastics piping systems for hot and cold water installations — Chlorinated poly (vinyl chloride) (PVC-C);*

EN ISO 21003, *Multilayer piping systems for hot and cold water installations inside buildings;*

EN ISO 22391, *Plastics piping systems for hot and cold water installations — Polyethylene of raised temperature resistance (PE-RT);*

ISO 17484*, Plastics piping systems — Multilayer pipe systems for indoor gas installations with a maximum operating pressure up to and including 5 bar (500 kPa).*

Fittings may be suitable for joining other pipes provided the fitting joint with the specified pipe meets the requirements of this European Standard and the relevant pipe standard.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 549:1994, *Rubber materials for seals and diaphragms for gas appliances and gas equipment*

EN 681-1:1996, *Elastomeric seals — Materials requirements for pipe joint seals used in water and drainage applications — Part 1: Vulcanised rubber*

EN 1254-4, *Copper and copper alloys — Plumbing fittings — Part 4: Fittings combining other end connections with capillary or compression ends*

EN 1655, *Copper and copper alloys — Declarations of conformity*

EN 1982, *Copper and copper alloys — Ingots and castings*

EN 12164, *Copper and copper alloys — Rod for free machining purposes*

EN 12165, *Copper and copper alloys – Wrought and unwrought forging stock*