

DIN EN ISO 16486-3:2025-05 (E)

Plastics piping systems for the supply of gaseous fuels - Unplasticized polyamide (PA-U) piping systems with fusion jointing and mechanical jointing - Part 3: Fittings (ISO 16486-3:2025)

Contents

| | Page |
|--|-----------|
| Foreword..... | iv |
| Introduction..... | v |
| 1 Scope..... | 1 |
| 2 Normative references..... | 1 |
| 3 Terms and definitions..... | 2 |
| 4 Material..... | 3 |
| 4.1 PA-U compound..... | 3 |
| 4.2 Material for non-unplasticized polyamide parts..... | 3 |
| 4.2.1 General..... | 3 |
| 4.2.2 Metal parts..... | 3 |
| 4.2.3 Elastomers..... | 3 |
| 4.2.4 Other materials..... | 4 |
| 5 General characteristics..... | 4 |
| 5.1 Appearance..... | 4 |
| 5.2 Design..... | 4 |
| 5.3 Colour..... | 4 |
| 5.4 Electrical characteristics for electrofusion fittings..... | 4 |
| 5.5 Appearance of factory-made fusion joints..... | 4 |
| 5.6 Fusion compatibility..... | 5 |
| 5.7 Appearance of transition fittings..... | 5 |
| 6 Geometrical characteristics..... | 5 |
| 6.1 Measurement of dimensions..... | 5 |
| 6.2 Dimensions of electrofusion sockets..... | 5 |
| 6.2.1 Diameters and lengths of electrofusion sockets..... | 5 |
| 6.2.2 Wall thickness..... | 5 |
| 6.3 Dimensions of spigot end fittings..... | 7 |
| 6.4 Dimensions of tapping tees..... | 9 |
| 6.5 Dimensions of transition fittings to other materials..... | 9 |
| 7 Mechanical characteristics..... | 9 |
| 7.1 General..... | 9 |
| 7.2 Conditioning..... | 10 |
| 7.3 Mechanical requirements..... | 10 |
| 7.4 Additional requirements for transition fittings..... | 12 |
| 8 Physical characteristics..... | 12 |
| 8.1 Conditioning..... | 12 |
| 8.2 Requirements..... | 12 |
| 9 Chemical resistance of fittings in contact with chemicals..... | 13 |
| 10 Performance requirements..... | 13 |
| 11 Marking..... | 13 |
| 11.1 General..... | 13 |
| 11.2 Minimum required marking of fittings..... | 13 |
| 11.3 Additional information required on fitting or label..... | 14 |
| 11.4 Fusion system recognition..... | 14 |
| 12 Delivery conditions..... | 14 |
| Annex A (informative) Examples of typical terminal connections for electrofusion..... | 15 |
| Annex B (normative) Short-term pressure test method..... | 17 |
| Annex C (normative) Tensile test fitting/pipe assemblies..... | 19 |
| Bibliography..... | 20 |