



National Standards Authority of Ireland

IRISH STANDARD

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ICS 23.040.80

**MEANS FOR RESEALING THREADED  
JOINTS OF GAS PIPEWORK IN BUILDINGS**

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EUROPEAN STANDARD

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English version

## Means for resealing threaded joints of gas pipework in buildings

Matériaux pour la réétanchéité des raccords filetés des  
tuyauteries de gaz dans les bâtiments

Mittel zum nachträglichen Abdichten von  
Gewindeverbindungen in Gas-Leitungsinstallationen in  
Gebäuden

This European Standard was approved by CEN on 25 September 2000.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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## Foreword

This European Standard has been prepared by Technical Committee CEN/TC 108 " Sealing materials and lubricants for gas appliances and gas equipment", the secretariat of which is held by NEN.

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of an identical text or by endorsement, at the latest by April 2001, and conflicting national standards shall be withdrawn at the latest by April 2001.

Annex A is informative.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## Introduction

Threaded joints of old interior gas piping systems may become unsound, because, for example, in former times parallel/parallel threaded joints were sealed by the application of natural fibers (e.g. hemp, flax) in combination with unsuitable sealing materials. These joints were sound as long as the distributed gas was wet and thus kept the natural fibers in a swollen condition. However, the joints began to leak when subsequently dry gas was introduced and the fibres consequently shrank.

Sealants specified in this European Standard are suitable for sealing leaky threaded joints, but not corroded or broken pipes. It is therefore recommended that the leakage rate of the gas installation, under distribution pressure, is determined prior to resealing. If the leakage rate is greater than e.g. 5 l/h then this is normally an indication of corrosion or other severe pipe damage. This should be repaired before the installation is treated with the sealant.

General recommendations for the design, construction, testing, operation, and maintenance of gas pipework in buildings are specified in EN 1775.

All pressures referred to in this Standard are gauge pressures.

## 1 Scope

This European Standard specifies the properties and the test methods of sealants used to reseal threaded joints of metallic gas pipework in buildings operated at a maximum allowed operating pressure of 100 mbar (such sealants hereafter are referred to as "sealants").

Note Gas pipework in buildings is in accordance with EN 1775 the pipework between the point of delivery and the inlet connection to the gas appliance.

This Standard is applicable to sealants for threaded joints of metallic gas pipework, in buildings, carrying fuel gases of the 1<sup>st</sup> family (town gas), 2<sup>nd</sup> family (natural gas), and 3<sup>rd</sup> family (liquefied petroleum gases (LPG)) (see EN 437) but not including liquefied petroleum gases in the liquid state.

Sealing materials for the installation of metallic threaded joints are specified in EN 751.

## 2 Normative References

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 437	<i>Test gases - Test pressures - Appliance categories</i>
EN 549:1994	<i>Rubber materials for seals and diaphragms for gas appliances and gas equipment</i>
EN 751-1	<i>Sealing materials for metallic threaded joints in contact with 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> family gases, and hot water - Part 1: Anaerobic jointing compounds</i>
EN 751-2	<i>Sealing materials for metallic threaded joints in contact with 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> family gases, and hot water - Part 2: Non-hardening jointing compounds</i>
EN 751-3	<i>Sealing materials for metallic threaded joints in contact with 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> family gases, and hot water - Part 3: Unsintered PTFE tapes</i>
EN 1775	<i>Gas supply - Gas pipework for buildings - Maximum operation pressure <math>\leq 5</math> bar - Functional recommendations</i>
EN 10242	<i>Threaded pipe fitting in malleable cast iron</i>
prEN 10255:1996	<i>Non-alloy steel tubes suitable for welding or threading</i>
ISO 7-1	<i>Pipe threads where pressure-tight joints are made on the threads - Part 1: Dimensions, tolerances and designation</i>

## 3 Terms and definitions

For definitions concerning gas pipework in buildings reference is made to EN 1775.

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