



**NSAI**  
Standards

Irish Standard  
I.S. EN 16752:2015

# Centrifugal pumps - Test procedure for seal packings

© CEN 2015 No copying without NSAI permission except as permitted by copyright law.

## I.S. EN 16752:2015

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

*This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):*

*NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.*

*This document is based on:*

EN 16752:2015

*Published:*

2015-09-09

*This document was published  
under the authority of the NSAI  
and comes into effect on:*

2015-09-28

ICS number:

21.140

23.080

NOTE: If blank see CEN/CENELEC cover page

NSAI  
1 Swift Square,  
Northwood, Santry  
Dublin 9

T +353 1 807 3800  
F +353 1 807 3838  
E standards@nsai.ie  
W NSAI.ie

Sales:  
T +353 1 857 6730  
F +353 1 857 6729  
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

## National Foreword

I.S. EN 16752:2015 is the adopted Irish version of the European Document EN 16752:2015, Centrifugal pumps  
- Test procedure for seal packings

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

**Compliance with this document does not of itself confer immunity from legal obligations.**

*In line with international standards practice the decimal point is shown as a comma (,) throughout this document.*

This page is intentionally left blank

**EUROPEAN STANDARD**

**EN 16752**

**NORME EUROPÉENNE**

**EUROPÄISCHE NORM**

September 2015

ICS 21.140; 23.080

English Version

## Centrifugal pumps - Test procedure for seal packings

Pompes centrifuges - Procédure d'essai pour  
garnitures tressées

Kreiselpumpen - Abnahmeprüfung für Packungen

This European Standard was approved by CEN on 1 August 2015.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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 United Kingdom.



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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

<b>Contents</b>	<b>Page</b>
European foreword.....	3
1 Scope .....	4
2 Normative references .....	4
3 Terms and definitions .....	4
4 Test facility, testing apparatus .....	4
5 Pre-test procedure.....	7
6 Installation .....	7
7 Test conditions.....	8
7.1 General.....	8
7.2 Test medium .....	8
7.3 Shaft diameter .....	8
7.4 Packing cross section.....	8
7.5 Surface speed.....	8
7.6 Pressure.....	8
7.7 Tightness-classes.....	8
8 Test Procedure .....	8
8.1 Break-in period.....	8
8.2 Test duration .....	9
8.3 Result recording.....	9
8.4 Gland adjustments .....	9
8.5 Number of tests.....	9
8.6 Test completion .....	9
9 Reporting .....	9
Annex A (normative) Packing test report template.....	11
Annex B (informative) Typical graphical representation of results.....	14
Bibliography.....	15

## **European foreword**

This document (EN 16752:2015) has been prepared by Technical Committee CEN/TC 197 “Pumps”, the secretariat of which is held by AFNOR.

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 March 2016, and conflicting national standards shall be withdrawn at the latest by March 2016.

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.

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.

**EN 16752:2015 (E)****1 Scope**

This European Standard gives details of a test procedure for packings to be used to seal the stuffing boxes of centrifugal pumps. It gives provisions on the design of test equipment, standard test parameters and reporting criteria. It does not specify performance criteria which should be agreed between supplier and customer, but does define 3 tightness classes.

When necessary, this European Standard is also applicable to packings used on other rotary equipment such as mixers and agitators.

**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 ISO 286-2, *Geometrical product specifications (GPS) — ISO code system for tolerances on linear sizes — Part 2: Tables of standard tolerance classes and limit deviations for holes and shafts (ISO 286-2)*

**3 Terms and definitions**

For the purposes of this document, the following terms and definitions apply.

**3.1****stuffing box**

space into which compression packing is inserted

Note 1 to entry: Stuffing box is also known as packing gland.

**3.2****gland follower**

part that provides into a stuffing box to compress a packing set or a packing ring

**3.3****shaft**

metal rod connecting the impeller of a pump to the motor

**3.4****leakage**

flow of liquid permitted to pass the packing

**3.5****housing bore**

dimension of the annular space that packing is inserted into

**4 Test facility, testing apparatus**

The test facility shall be arranged as described in Figure 1.



This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- Looking for additional Standards? Visit Intertek Inform Infostore
  - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-