

IRISH STANDARD

I.S. EN 10228-2:1998

ICS 77.040.20 77.140.85

National Standards Authority of Ireland Glasnevin, Dublin 9 Ireland

Tel: +353 1 807 3800 Fax: +353 1 807 3838 http://www.nsai.ie

Sales

http://www.standards.ie

NON-DESTRUCTIVE TESTING OF STEEL
FORGINGS - PART 2: PENETRANT TESTING

This Irish Standard was published under the authority of the National Standards Authority of Ireland and comes into effect on:
November 13, 1998

NO COPYING WITHOUT NSAI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

© NSAI 1998 Price Code G

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online. This page is intentionally left BLANK.

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 10228-2

May 1998

ICS 77.040.20; 77.140.85

Descriptors: forgings, steels, non-destructive tests, liquid penetrant tests, surface condition, defects, inspection, setting-up conditions, acceptability, quality classes

English version

Non-destructive testing of steel forgings - Part 2: Penetrant testing

Essais non destructifs des pièces forgées en acier - Partie 2: Contrôle par ressuage Zerstörungsfreie Prüfung von Schmiedestücken aus Stahl -Teil 2: Eindringprüfung

This European Standard was approved by CEN on 21 December 1997.

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Page 2 EN 10228-2:1998

Contents	Page
Foreword	3
1 Scope	4
2 Normative references	4
3 Definitions	4
4 Items for agreement	4
5 Written procedure	5
6 Personnel qualification	6
7 Testing system	6
8 Stage of manufacture	7
9 Surface condition	7
10 Coverage	7
11 Penetrant testing process	8
12 Viewing	8
13 Classification of indications	8
14 Recording and acceptance criteria	11
15 Removal of defects	12
16 Cleaning	12
17 Reporting	12

Foreword

This European Standard has been prepared by Technical Committee ECISS/TC 028 "Steel forgings", the secretariat of which is held by BSI.

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 November 1998 and conflicting national standards shall be withdrawn at the latest by November 1998.

The titles of the other Parts of this European Standard are:

Part 1: Magnetic particle inspection

Part 3: Ultrasonic testing of ferritic or martensitic steel forgings

Part 4: Ultrasonic testing of austenitic and austenitic-ferritic stainless steel

forgings

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.

Page 4

EN 10228-2:1998

1 Scope

This Part of EN 10228 describes the method and acceptance criteria to be used for the penetrant testing of steel forgings. The method described is used for the detection of surface discontinuities.

2 Normative references

This Part of EN 10228 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 Part of EN 10228 only when incorporated in by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 473	Qualification and	certification of NDT	nersonnel - General	nrincinles
LITTI	zuammeunom ama	continuation of 11D 1	personner deneral	, principies

EN 571 Non-destructive testing - Penetrant testing

Part 1: General principles for the examination

prEN 1330 Non-destructive testing - Terminology

Part 6: Terms used in penetrant systems

prEN ISO 3452 Non-destructive testing - Penetrant testing

Part 2: Testing of penetrant materials

Part 4: Equipment

3 Definitions

For the purposes of this Part of EN 10228 the definitions given in prEN 1330-6 shall apply.

4 Items for agreement

The following aspects concerning penetrant testing shall be agreed between the purchaser and the supplier at the time of enquiry and order:

- a) the manufacturing stage(s) at which penetrant testing is to be performed. (see clause 8);
- b) the surface areas to be examined. (see clause 9);



The is a new provider i arenade and chare publication at the limit below	This is a free preview.	Purchase the	entire publication	at the link below:
--	-------------------------	--------------	--------------------	--------------------

Product Page

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