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IRISH STANDARD

I.S. EN 12392:2000

ICS 77.150.10

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ALUMINIUM AND ALUMINIUM ALLOYS - WROUGHT PRODUCTS - SPECIAL REQUIREMENTS FOR PRODUCTS INTENDED FOR THE PRODUCTION OF PRESSURE EQUIPMENT

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EUROPEAN STANDARD

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English version

Aluminium and aluminium alloys - Wrought products - Special requirements for products intended for the production of pressure equipment

Aluminium et alliages d'aluminium - Produits corroyés - Exigences particulières pour les produits destinés à la fabrication des appareils à pression

Aluminium und Aluminiumlegierungen - Kneterzeugnisse - Besondere Anforderungen an Erzeugnisse für die Fertigung von Druckgeräten

This European Standard was approved by CEN on 3 December 1999.

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EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 132 "Aluminium and aluminium alloys", the secretariat of which is held by AFNOR.

Within its programme of work, Technical Committee CEN/TC 132 has entrusted CEN/TC 132/WG 7 "Sheets, strips and plates" to prepare the following standard:

EN 12392, *Aluminium and aluminium alloys – Wrought products – Special requirements for products intended for the production of pressure equipment*.

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of an identical text or by endorsement, at the latest by September 2000, and conflicting national standards shall be withdrawn at the latest by September 2000.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this standard.

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.

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1 Scope

This European Standard specifies particular requirements and testing procedures applicable to wrought aluminium and aluminium alloys intended for the production of pressure equipment.

It includes :

— the products forms, grades and tempers of wrought aluminium and aluminium alloys which may be used for such application, together with their permissible working temperature range ;

— the technical conditions for inspection and delivery, mechanical property limits and tolerances on form and dimensions by reference to the applicable European Standards for wrought aluminium and aluminium alloys ;

— additional requirements specific to pressure vessel application.

It applies to hot-rolled or cold-rolled sheet, strip, plate and circle, extruded or extruded and cold drawn rod/bar and tube, extruded open and hollow sections, and forgings.

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.

EN 485-1, *Aluminium and aluminium alloys - Sheet, strip and plate - Part 1 : Technical conditions for inspection and delivery*.

EN 485-2, *Aluminium and aluminium alloys - Sheet, strip and plate - Part 2 : Mechanical properties*.

EN 485-3, *Aluminium and aluminium alloys - Sheet, strip and plate - Part 3 : Tolerances on shape and dimensions for hot-rolled products*.

EN 485-4, *Aluminium and aluminium alloys - Sheet, strip and plate - Part 4 : Tolerances on shape and dimensions for cold-rolled products*.

EN 586-1, *Aluminium and aluminium alloy - Forgings - Part 1 : Technical conditions for inspection and delivery*.

EN 586-2, *Aluminium and aluminium alloy - Forgings - Part 2 : Mechanical properties and additional property requirements*.

prEN 586-3 : 1996, *Aluminium and aluminium alloy - Forgings - Part 3 : Tolerances on dimensions and form*.

EN 754-1, *Aluminium and aluminium alloy - Cold drawn rod/bar and tube - Part 1 : Technical conditions for inspection and delivery*.

EN 754-2, *Aluminium and aluminium alloy - Cold drawn rod/bar and tube - Part 2 : Mechanical properties*.

EN 754-3, *Aluminium and aluminium alloy - Cold drawn rod/bar and tube - Part 3 : Round bars, tolerances on dimensions and form*.

EN 754-4, *Aluminium and aluminium alloy - Cold drawn rod/bar and tube - Part 4 : Square bars, tolerances on dimensions and form*.

EN 754-5, *Aluminium and aluminium alloy - Cold drawn rod/bar and tube - Part 5 : Rectangular bars, tolerances on dimensions and form*.

EN 754-6, *Aluminium and aluminium alloy - Cold drawn rod/bar and tube - Part 6 : Hexagonal bars, tolerances on dimensions and form*.

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