

Aluminium and aluminium alloys — Cold drawn rod/bar and tube —

Part 1: Technical conditions for inspection and delivery

ICS 77.150.10

National foreword

This British Standard is the UK implementation of EN 754-1:2008. It supersedes BS EN 754-1:1997 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee NFE/35, Light metals and their alloys.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Part 1: Technical conditions for inspection and delivery**

Aluminium et alliages d'aluminium - Barres et tubes étirés -
Partie 1: Conditions techniques de contrôle et de livraison

Aluminium und Aluminiumlegierungen - Gezogene Stangen
und Rohre - Teil 1: Technische Lieferbedingungen

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COMITÉ EUROPÉEN DE NORMALISATION
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Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This document (EN 754-1:2008) has been prepared by Technical Committee CEN/TC 132 "Aluminium and aluminium alloys", 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of an identical text or by endorsement, at the latest by September 2008, and conflicting national standards shall be withdrawn at the latest by September 2008.

This document supersedes EN 754-1:1997.

Within its programme of work, Technical committee CEN/TC 132 entrusted CEN/TC 132/WG 5 "*Extruded and drawn products*" to revise EN 754-1:1997.

The following technical modifications have been introduced during the revision:

- Clause 1: Scope is clarified with respect to what is not included
- Clause 3: Definition of order document is included
- Clause 4: The order document shall contain information about application especially for products to be anodised
- Subclauses 5.4 and 6.2.3: Provisions regarding Brinell hardness testing is included
- Subclauses 5.7 and 6.2.6: Requirements to stress corrosion cracking resistance is included (from former Annex A in Part 2)
- Subclause 6.1.1: For samples for chemical analysis reference is made to EN 14361
- Subclause 6.1.3.3: For shapes and dimensions of test pieces reference is made to EN 10002-1 (and former Annex A is deleted)
- Clause 7: For inspection documents reference is made to EN 10204
- Annex B: Resistance to stress corrosion cracking – Electrical conductivity is added (taken from former Part 2)

EN 754 comprises the following parts under the general title "*Aluminium and aluminium alloys — Cold drawn rod/bar and tube*":

- *Part 1: Technical conditions for inspection and delivery*
- *Part 2: Mechanical properties*
- *Part 3: Round bars, tolerances on dimensions and form*
- *Part 4: Square bars, tolerances on dimensions and form*
- *Part 5: Rectangular bars, tolerances on dimensions and form*
- *Part 6: Hexagonal bars, tolerances on dimensions and form*

— *Part 7: Seamless tubes, tolerances on dimensions and form*

— *Part 8: Porthole tubes, tolerances on dimensions and form*

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1 Scope

This document specifies the technical conditions for inspection and delivery of aluminium and aluminium alloy cold drawn rod/bar and tube for general engineering applications.

This document applies to products which are extruded and then cold drawn.

This document does not apply to:

- forging stock (EN 603),
- products delivered in coils (EN 13958),
- coiled tubes cut to length (EN 13958).

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references only the edition cited applies. For undated references the latest edition of the referenced document (including any amendments) applies.

EN 515, *Aluminium and aluminium alloys — Wrought products — Temper designations*

EN 573-3, *Aluminium and aluminium alloys - Chemical composition and form of wrought products - Part 3: Chemical composition and form of products*

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

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

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

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

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

EN 754-7, *Aluminium and aluminium alloys — Cold drawn rod/bar and tube — Part 7: Seamless tubes, tolerances on dimensions and form*

EN 754-8, *Aluminium and aluminium alloys — Cold drawn rod/bar and tube — Part 8: Porthole tubes, tolerances on dimensions and form*

EN 2004-1, *Aerospace series — Test methods for aluminium and aluminium alloy products — Part 1: Determination of electrical conductivity of wrought aluminium alloys*

EN 10002-1, *Metallic materials — Tensile testing — Part 1: Method of test at ambient temperature*

EN 10204, *Metallic products — Types of inspection documents*

EN 12258-1:1998, *Aluminium and aluminium alloys — Terms and definitions — Part 1: General terms*

EN 14242, *Aluminium and aluminium alloys — Chemical analysis — Inductively coupled plasma optical emission spectral analysis*