INTERNATIONAL **STANDARD**

ISO 6363-6

> First edition 2012-07-15

Wrought aluminium and aluminium alloys — Cold-drawn rods/bars, tubes and wires -

Part 6:

Drawn round tubes — Tolerances on form and dimensions

Aluminium et alliages d'aluminium corroyés — Barres, tubes et fils ands étiré. étirés à froid —

Partie 6: Tubes ronds étirés — Tolérances sur forme et dimensions





© ISO 2012

Aduced or utilized in any form of from either ISO at the P All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

Case postale 56 • CH-1211 Geneva 20 Tel. + 41 22 749 01 11 Fax + 41 22 749 09 47 E-mail copyright@iso.org Web www.iso.org

Published in Switzerland

Cor	Contents	
Fore	word	iv
1	Scope	
2	Normative references	
3	Terms and definitions	
4	Materials	
5 5.1 5.2 5.3 5.4 5.5	Tolerances on dimensions General Diameter — Round tube Wall thickness — Round tube Fixed-length tolerances Squareness of cut ends	
6 6.1 6.2	Tolerances on form	

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 6363-6 was prepared by Technical Committee ISO/TC 79, *Light metals and their alloys*, Subcommittee SC 6, *Wrought aluminium and aluminium alloys*.

ISO 6363 consists of the following parts, under the general title *Wrought aluminium and aluminium alloys* — *Cold-drawn rods/bars, tubes and wires*:

- Part 1: Technical conditions for inspection and delivery
- Part 2: Mechanical properties
- Part 3: Drawn round bars and wires Tolerances on form and dimensions (symmetric plus and minus tolerances on diameter)
- Part 4: Drawn rectangular bars and wires Tolerances on form and dimensions
- Part 5: Drawn square and hexagonal bars and wires Tolerances on form and dimensions
- Part 6: Drawn round tubes Tolerances on form and dimensions

Wrought aluminium and aluminium alloys — Cold-drawn rods/bars, tubes and wires —

Part 6:

Drawn round tubes — Tolerances on form and dimensions

1 Scope

This part of ISO 6363 specifies the tolerances on form and dimensions of wrought aluminium and aluminium alloy drawn round tubes (seamless and porthole).

This part of ISO 6363 applies to cold-drawn round tubes.

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.

ISO 6363-1, Wrought aluminium and aluminium alloys — Cold-drawn rods/bars, tubes and wires — Part 1: Technical conditions for inspection and delivery

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 6363-1 apply.

4 Materials

For the purposes of this part of ISO 6363, wrought aluminium and aluminium alloys are divided into two groups, which correspond to varying difficulty whenever manufacturing the products.

The division into group I and group II of the most commonly used general engineering alloys is specified in Table 1. Grouping of other alloys is subject to agreement between the purchaser and supplier.

Table 1 — Alloy group

	1050, 1050A, 1070, 1100, 1200, 1350	
Group I	3003, 3102, 3103, 3203	
	5005, 5005A, 5019, 5049, 5050, 5051, 5051A, 5052, 5056, 5083, 5086, 5154, 5154A, 5251, 5754	
	2007, 2011, 2011A, 2014, 2014A, 2017, 2017A, 2024, 2030	
Group II	6018, 6056, 6060, 6061, 6063, 6063A, 6081, 6082, 6181, 6261, 6262, 6463	
	7003, 7005, 7020, 7021, 7022, 7049A, 7050, 7075, 7108, 7108A, 7204	
NOTE The four-digit numbers listed are taken from the Registration of International Alloy Designations and Chemical Composition Limits for Wrought Aluminium Alloys (also known as "Teal sheets") ^[1] (published by the Aluminium Association, USA).		