BS ISO 18762:2016

BSI Standards Publication

Tubes of titanium and titanium alloys — Welded tubes for condensers and heat exchangers — Technical delivery conditions

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National foreword

This British Standard is the UK implementation of ISO 18762:2016.

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.

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

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INTERNATIONAL STANDARD

ISO 18762

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Tubes of titanium and titanium alloys — Welded tubes for condensers and heat exchangers — Technical delivery conditions

Tubes en titane et alliage de titane — Tubes soudés pour condenseurs et échangeurs de chaleur — Conditions techniques de livraison

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Foreword

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information.

The committee responsible for this document is ISO/TC 79, *Light metals and their alloys*, Subcommittee SC 11, *Titanium.*

INTERNATIONAL STANDARD **ISO 18762:2016(E)**

Tubes of titanium and titanium alloys — Welded tubes for condensers and heat exchangers — Technical delivery conditions

1 Scope

This International Standard specifies requirements for the manufacture of welded tubes made from titanium or titanium alloys, for use in condensers and heat exchangers.

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.

ISO 6892–1, *Metallic materials — Tensile testing — Part 1: Method of test at room temperature*

ISO 8492, *Metallic materials — Tube — Flattening test*

ISO 8493, *Metallic materials — Tube — Drift-expanding test*

ISO 10474, *Steel and steel products — Inspection documents*

ISO 25902-1, *Titanium pipes and tubes — Non-destructive testing — Part 1: Eddy-current examination*

ISO 25902-2, *Titanium pipes and tubes — Non-destructive testing — Part 2: Ultrasonic testing for the detection of longitudinal imperfections*

ASTM E29, *Practice for Using Significant Digits in test Data to Determine Conformance with Specifications*

ASTM A370, *Standard Test Methods and Definitions for Mechanical Testing of Steel Products*

ASTM E120, *Test methods for Chemical Analysis of Titanium and Titanium Alloys*

ASTM E1409, *Test method for determination of oxygen and nitrogen in titanium and titanium alloys by the inert gas fusion technique*

ASTM E1447, *Test method for determination of hydrogen in titanium and titanium alloys by the inert gas fusion thermal conductivity/ Infrared detection method*

ASTM E1941, *Standard Test Method for Determination of Carbon in Refractory and Reactive Metals and their Alloys by Combustion Analysis*

3 Information to be supplied by the purchaser

3.1 General information

The purchase order shall include the following information:

a) quantity (e.g. total mass or total length of tube);

b) grade number;

c) outside diameter and wall thickness (minimum or average);