



**NSAI**  
Standards

Irish Standard  
I.S. 238:1980

## Copper Tubes

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*Superseded*

## I.S. 238 : 1980

*Incorporating amendments/corrigenda issued since publication:*

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<b>NSAI</b> 1 Swift Square, Northwood, Santry Dublin 9	T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W <b>NSAI.ie</b>	<b>Sales:</b> T +353 1 857 6730 F +353 1 857 6729 W standards.ie
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I.S. 238 : 1980

IRISH STANDARD SPECIFICATION

COPPER TUBES

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INSTITUTE FOR  
INDUSTRIAL RESEARCH  
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## IRISH STANDARD SPECIFICATION

### COPPER TUBES

I.S. 238 : 1980

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INSTITUTE FOR INDUSTRIAL RESEARCH AND STANDARDS

BALLYMUN ROAD, DUBLIN 9.

TELEGRAMS : RESEARCH, DUBLIN. TELEX : 5449. TELEPHONE : 370101.

DECLARATION  
OF  
SPECIFICATION  
ENTITLED  
COPPER TUBES  
AS  
THE IRISH STANDARD SPECIFICATION FOR  
COPPER TUBES

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The Institute for Industrial Research and Standards in exercise of the power conferred by section 20 of the Industrial Research and Standards Act, 1961 (No. 20 of 1961), and with the consent of the Minister for Industry, Commerce and Tourism hereby declares as follows:

1. This instrument may be cited as the Standard Specification (Copper Tubes) Declaration, 1980.
2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Copper Tubes.  
(2) The said standard specification may be cited as Irish Standard 238 : 1980 or as I.S. 238 : 1980.

SCHEDULECOPPER TUBES

## 1. SCOPE

This specification specifies requirements for half hard ( $\frac{1}{2}$  H), copper tubes supplied in straight lengths, suitable for connection by means of compression fittings and capillary fittings or by silver brazing or by suitable methods of welding. When assembled with compression fittings complying with I.S. 239 : 1980 "Compression Tube Fittings of Copper and Copper Alloy", they are suitable for use at the working service temperatures and pressures specified in Table 1.

TABLE 1 : SERVICE TEMPERATURES AND PRESSURES

Service temperature	Working pressure
$^{\circ}\text{C}$	*MPa
30	1.6
65	1.0
110	0.6

$$* 1 \text{ MPa} = 1 \text{ N/mm}^2 = 10 \text{ bar}$$

## 2. GENERAL

The tubes shall comply with the general requirements as set out in the following Clauses and the appropriate requirements as set out in Tables 2 and 3.

## 3. MAXIMUM WORKING PRESSURE

The manufacturer shall satisfy himself that the tubes shall withstand the appropriate maximum working pressures given in Table 2 at temperatures up to  $65^{\circ}\text{C}$ . The following formula has been used as a basis for calculating maximum working pressures:

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