

**I.S. 131 : 1964**

**IRISH STANDARD SPECIFICATION**

**TREATMENT OF TIMBER  
WITH COPPER/CHROME OR  
COPPER/CHROME/ARSENIC  
WATER-BORNE WOOD  
PRESERVATIVE**

**INSTITUTE for  
INDUSTRIAL RESEARCH  
and STANDARDS**





# **IRISH STANDARD SPECIFICATION**

## **TREATMENT OF TIMBER WITH COPPER/CHROME OR COPPER/CHROME/ARSENIC WATER-BORNE WOOD PRESERVATIVE**

I.S. 131 : 1964

*Price 8/-*

**INSTITUTE FOR INDUSTRIAL RESEARCH AND STANDARDS**

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**DECLARATION**  
**OF**  
**SPECIFICATION**  
**ENTITLED**  
**TREATMENT OF TIMBER WITH**  
**COPPER/CHROME OR COPPER/CHROME/ARSENIC**  
**WATER-BORNE WOOD PRESERVATIVE**  
**AS**  
**THE IRISH STANDARD SPECIFICATION FOR**  
**TREATMENT OF TIMBER WITH**  
**COPPER/CHROME OR COPPER/CHROME/ARSENIC**  
**WATER-BORNE WOOD PRESERVATIVE**

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The Institute for Industrial Research and Standards in exercise of the power conferred by subsection (3) of section 20 of the Industrial Research and Standards Act, 1961 (No. 20 of 1961), and with the consent of the Minister for Industry and Commerce (signified by his Official Seal affixed hereto), hereby declares as follows :

1. This instrument may be cited as the Standard Specification (Treatment of Timber with Copper/Chrome or Copper/Chrome/Arsenic Water-Borne Wood Preservative) Declaration 1964.

2. (1) The specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Treatment of Timber with Copper/Chrome or Copper/Chrome/Arsenic Water-Borne Wood Preservative.

(2) The said standard specification may be cited as Irish Standard 131 : 1964 or as I.S. 131 : 1964.

## SCHEDULE

### **Treatment of Timber with Copper/Chrome or Copper/Chrome/Arsenic Water-Borne Wood Preservative**

#### SCOPE

1. This specification applies to the full-cell vacuum and pressure treatment, with copper/chrome or copper/chrome/arsenic water-borne wood preservative, of building timber for interior or exterior structural use (e.g. carcassing, flooring, eaves or fascias), for use as components of joinery (e.g. door or window frames), or for other manufactured articles (e.g. built-in presses).

#### DEFINITIONS

2. (a) *Gross volumetric absorption.* The total volume of preservative solution injected into the charge of timber during the treating operation, as measured immediately after the release of pressure and before applying a vacuum, expressed as gallons of solution per cubic foot of timber.

(b) *Net volumetric absorption.* The volume of preservative solution remaining in the charge of timber immediately after completion of the entire cycle of treatment, expressed as gallons of solution per cubic foot of timber.

(c) *Net dry salt retention.* The average weight in pounds of dry preservative salts per cubic foot of timber in the charge, after the complete treatment operation.

#### PRESERVATIVE

3. The preservative used shall be one of three types designated respectively as Type 1, Type 2, and Type 3.

Type 1 shall consist essentially of a mixture of copper sulphate, sodium or potassium dichromate, and chromic acetate conforming to the composition requirements set out in Table 1.

Types 2 and 3 shall consist essentially of mixtures of copper sulphate, sodium or potassium dichromate, and arsenic pentoxide conforming to the composition requirements set out in Table 1.

The sum of the percentages by weight in the mixture of the above essential ingredients shall be not less than 95. The mixture shall be free from visible impurities.

The pH value of a 2 per cent w/v solution of the preservative in distilled water when determined by means of a glass electrode at 20°C shall be

Type 1	2.7 — 4.2
Types 2 and 3	1.8 — 2.8

TABLE 1  
COMPOSITION OF PRESERVATIVE

The nominal proportions by weight of active ingredients in the dry preservative and the minimum percentage of each ingredient present shall be:

Type 1	Nominal proportions	Minimum percentage
Copper (calculated as $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ )	45	42.5
Dichromate (calculated as $\text{Na}_2\text{Cr}_2\text{O}_7 \cdot 2\text{H}_2\text{O}$ or $\text{K}_2\text{Cr}_2\text{O}_7$ )	50	47.5
Chromic acetate	5	4.75

  

Type 2	Nominal proportions	Minimum percentage
Copper (calculated as $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ )	33	30
Dichromate (calculated as $\text{Na}_2\text{Cr}_2\text{O}_7 \cdot 2\text{H}_2\text{O}$ or $\text{K}_2\text{Cr}_2\text{O}_7$ )	41	38
Arsenic (calculated as $\text{As}_2\text{O}_5 \cdot 2\text{H}_2\text{O}$ )	26	24

  

Type 3	Nominal proportions	Minimum percentage
Copper (calculated as $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ )	35	31.5
Dichromate (calculated as $\text{Na}_2\text{Cr}_2\text{O}_7 \cdot 2\text{H}_2\text{O}$ or $\text{K}_2\text{Cr}_2\text{O}_7$ )	45	40.5
Arsenic (calculated as $\text{As}_2\text{O}_5 \cdot 2\text{H}_2\text{O}$ )	20	18

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