

NZS 3640:2003

CHEMICAL PRESERVATION OF ROUND AND SAWN TIMBER

AMENDMENT No. 1

March 2004

REVISED TEXT

EXPLANATORY NOTE

NZS 3640:2003 is amended to allow for the inclusion of new chemical preservative formulations within the Hazard Classes H3.1, H3.2, H4 and H5.

APPROVAL

Amendment 1 was approved on 26 March 2004 by the Standards Council to be an amendment to NZS 3640:2003.

2 DEFINITIONS (page 9)

Delete the definitions for characteristic value and **substitute**:

CHARACTERISTIC VALUE (PENETRATION). The 10th percentile of the required penetration.

NOTE – For example, if 10 samples are taken from a population of treated product, the population is deemed to have met the specification if nine of the samples meet or exceed the specified depth of penetration.

CHARACTERISTIC VALUE (RETENTION). The 10th percentile of the required preservative retention.

NOTE – For example, if 10 samples are taken from a population of treated product, the population is deemed to have met the specification if nine of the samples meet or exceed the specified preservative retention.

(Amendment No.1, March 2004)

4.4.2 *LOSP fungicides* (page 17)

Delete table 4.4 and **substitute**:

Table 4.4 – LOSP Fungicides

Fungicides	Hazard classes
Bis-(tri-n-butyltin) oxide (TBTO)	H1.2, H3.1
Bis-(tri-n-butyltin) naphthenate (TBTN)	H1.2, H3.1
Copper naphthenate (CuN)	H1.2, H3.1 and H3.2
Iodo propynyl butyl carbamate (IPBC) ⁽¹⁾	H1.2
Propiconazole + tebuconazole (1:1) ⁽²⁾	H3.1
NOTE – (1) IPBC shall be used only in combination with permethrin and a minimum combined concentration of 3.5 % waxes and hydrocarbon resin in the treating solution. (2) Propiconazole + tebuconazole shall be used only in combination with permethrin and with a hydrocarbon resin with minimum concentration of 2 % and with a combined concentration of resins and waxes of 3 % or more in the treating solution.	

(Amendment No.1, March 2004)

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4.4.2.1 Specification (page 17)**Delete** existing clause and **substitute**:

"The IPBC and the naphthenic acid component of TBTN and CuN shall conform to AWPA Standard P8-01".

(Amendment No.1, March 2004)

5.1.4 (page 19)**Add** in numeric order to the list at 5.1.4 (c) the preservative type and code number for:

"Copper naphthenate 57

Propiconazole + tebuconazole 64".

(Amendment 1, March 2004)

5.2 Colouring (page 20)**Delete** table 5.2 and **substitute**:**Table 5.2 – Colour coding for timber to be used as framing**

Hazard class	Preservative	Colour ⁽¹⁾
H1.2	TBTO, TBTN or IPBC/permethrin	Blue ⁽²⁾
	Boron	Pink ⁽³⁾
H3.1	TBTO or TBTN Propiconazole + tebuconazole /permethrin	No added colour ⁽⁴⁾ or green ⁽⁵⁾
NOTE – (1) These colours shall not be used for any preservative types/hazard classes other than specified. (2) The blue colour shall be a red-shade blue in order that it does not appear green with the natural yellow of timber (suggested colour – Pigment Blue 15.3). (3) Colour – Red 112 (red) or Red 122 (pink). (4) H3.1 framing shall be branded repetitively along the length at 1500 mm centres only, on its face or edge. (5) If coloured green, the colour is to be distinctly different from the green of the H3.2 preservative treatment (colour Green 368).		

(Amendment No.1, March 2004)

Table 6.2 (page 24)**Delete** table 6.2 and **substitute**:**Table 6.2 – Minimum preservative retention in the H3.1, H3.2 analysis zone**

Preservative type	Component	Retention %m/m oven dry weight of wood	
		H3.1	H3.2
Waterborne preservatives			
Alkaline copper quaternary	Cu + DDAC	0.35	0.35
CCA	Cu + Cr + As	0.37	0.37
CuAz	Cu + azole	0.2288	0.2288
Light organic solvent preservatives (LOSPs)			
CuN	Cu	0.10	0.10
Propiconazole + tebuconazole (1:1)	Propiconazole + tebuconazole	0.06	Not approved
TBTO, TBTN	Sn	0.08	Not approved

(Amendment No.1, March 2004)

6.4.1.3 Preservative retention requirement (page 25)**Delete** table 6.3 and **substitute**:**Table 6.3 – Minimum preservative retention in the H4 analysis zone**

Preservative type	Component	Retention %m/m oven dry weight of wood
Alkaline copper quaternary	Cu + DDAC	1.02
CCA	Cu + Cr + As	0.72
CuAz	Cu + azole	0.416

(Amendment No.1, March 2004)

6.5.1.3 Preservative retention requirement (page 26)**Delete** table 6.4 and **substitute**:**Table 6.4 – Minimum preservative retention in the H5 analysis zone**

Preservative type	Component	Retention %m/m oven dry weight of wood
Alkaline copper quaternary	Cu + DDAC	1.35
CCA	Cu + Cr + As	0.95
CuAz	Cu + azole	0.759

(Amendment No.1, March 2004)

6.5.2.3 Preservative analysis requirement (page 27)**Delete** this clause and substitute:**6.5.2.3 Preservative retention requirement**

The retention of preservative in the analysis zone of the treated timber shall be not less than specified in table 6.4.

(Amendment No.1, March 2004)

6.5.3.3 Preservative analysis requirement (page 27)**Delete** this clause and substitute:**6.5.3.3 Preservative retention requirement**

The retention of preservative in the analysis zone of the treated timber shall be not less than specified in table 6.4.

(Amendment No.1, March 2004)

6.6.3 Preservative analysis requirement (page 28)**Delete** this heading and substitute:**6.6.3 Preservative retention requirement**

(Amendment No.1, March 2004)

Table 6.5 – Minimum preservative retention in the H6 analysis zone (page 27)

This table is reproduced below to be relocated on page 28.

**Table 6.5 – Minimum preservative retention in the H6 analysis zone
(rounds, part rounds and sawn timber)**

Preservative type	Component	Retention % m/m oven dry weight of wood
CCA	Cu	0.40

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