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
The Effects of Different Preservation Chemicals and Finishing on Wood
Combustion Properties in *Pinus sylvestris*L. and *Castanea sativa* Mill.

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Abstract: In this study, changes in combustion properties in solid wood treated with different chemicals and varnishes were investigated. Wood samples prepared from Scotch pine (*Pinus sylvestris* L.) and chestnut (*Castanea sativa* Mill.) were impregnated with tanalith-CBC, water repellent (WR) solutions + synthetic varnish and WR + polyurethane varnish. Afterwards, synthetic and polyurethane varnishes were applied to the surfaces. Varnishing had the initial effect of fire retardation in both Scotch pine and chestnut impregnated with tanalith-CBS. Loss of weight was found to be 20% in chestnut samples and 13% in Scotch pine samples. However, varnishes did not affect combustion properties after the impregnation process. The split result of combustion did not occur in samples impregnated with tanalith-CBS samples.

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