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
The Effect of Some Boron Compounds and Water Repellents on the Fire
Resistance Properties of Scotch Pine Wood

Yalçın ÖRS, Musa ATAR

G.Ü. Tek. Eğt. Fak. Mob. Dek. Eğt. Böl. Ankara-TÜRKİYE

Hüseyin PEKER

K.T.Ü. Hopa M.Y.O. Trabzon-TÜRKİYE

 [Keywords](#)
 [Authors](#)



agric@tubitak.gov.tr

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Abstract: This investigation was designed to improve the fire-resistance properties of polyethylene glycole (PEG-400) and some water repellent solutions used to improve the flammability properties of wood. For this reason, samples from Scotch pine wood were impregnated according to ASTM-D 1413-76 boric acid, borax, sodium perbo-rate diluted or dissolved in PEG-400 were used as a preservative materials, and paraffin, styrene, methylmethacrylate and wax were used as a water repellent materials. It was found that, compounds contained boron increased the water resistance properties and water repellents materials resulted in the same decreasing the flammability behavior of wood.

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