

## **Addition of ammonium hydroxide as formaldehyde scavenger for sesenduk (Endospermum diadenum) wood compregnated using phenolic resins**

### **ABSTRACT**

Compregnated sesenduk (*Endospermum diadenum*) was produced using low and medium molecular weight phenol formaldehyde resin. 0, 1, 1.5 and 3 % of aqueous ammonium hydroxide ( $\text{NH}_3 \cdot \text{H}_2\text{O}$ ) were incorporated into the resin to act as formaldehyde scavenger. A maximum of 85.7 % reduction in formaldehyde emission was recorded, but the mechanical and physical properties of the treated sesenduk wood were negatively affected by the ammonium hydroxide addition.

**Keyword:** Ammonium hydroxide; Sesenduk; Formaldehyde