

DETERMINATION OF THERMAL-PHYSICAL PROPERTIES OF SQUID

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Summary

Specific heat and density of squids were alternately determined by mixed method and displacement volume with relative moisture content of materials tested in the range of 11.21 - 80.27% (w.b.). The results showed that the specific heat value of the squids increased linearly with the moisture content of the material and had a change in value of 3.25 - 3.61 kJ/kg.K. The density of squids decreased from 1037 kg/m³ to 1221.7 kg/m³ with increasing moisture content. The latent heat of squids was determined by the equilibrium moisture content of the material and ranged from 3023.8 kJ/kg to 2046.1 kJ/kg, this value varied with the moisture content of the drying squids. Experimental data from regression equations were constructed to predict density, specific heat and latent heat of squids.

Keywords: *Squid, density, specific heat, latent heat.*