THE INFLUENCE ANALYSE OF POLYURETHANE COMPOSITION RATIO FROM THE DENSITY AND THERMAL CONDUCTIVITY

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ABSTRACT

The insulation hatch is a place to keep fishes in trawler which tobe one with the hull of trawler. The wall of insulation hatch made from cast polyurethane foam. Only big trawler have the insulation hatch, the hatch could be air thight and proof against from outside temperature if the hatch made from that in this riset is carrying about.

The influence of analyse of polyurethane composition ratio (without additive essence) with polyurethane composition ratio (with aditive essence) from the density and thermal conductivity in the insulation hatch. The additive essence which use in this riset are (pinus) wood powderand (resin) five time experients have done to know ratio density (without additive essence). The spesiment has shaped by shaper which have volume 62,8 cm³, measure the dimension measured by thermal conductivity instruments.

The poin of this riset is to analyse the influence of polyurethane A (polyol) and polyurethane B (isocyanate) without additive essence and with additive essence to get the optimize polyurethane which the density and thermal conductivity are low.

Key word : Polyurethane, Density, Thermal conductivity, Insulation.