

Research Title : Development and Technology Transfer of Kiln and RAKU Firing of Dan Kwian Clay for Dan Kwian Pottery Tradesman, Nakhonratchasima Province

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Published Year : 2012

Source of Fund : Rajamangala University of Technology Isan

ABSTRACT

This research was the Raku clay experimental result with Dan Kwian clay. There were 5 clay formulas found upon the research. There were the different mixed such as borax, bentonite, dolomite and fire proof clay by using the Triaxial Blend theory on the mixing find and Grog filled. The result of the experimental enabled the Raku clay from Dan Kwian mold clay that has a suitable kiln property with Raku technique and able to be used as the raw materials of other sculptures, it was a well formed clay, less shrinkage, no cracked, strong, colourful, endured the rapidly thermal shock, by every formula was Dan Kwian clay as a main mixture for the suitable usage of Dan Kwian community.

The Glaze experimental upon this research used of low firing formula under the studied two formulas at 1,050^oC, the glaze with oxide and stain mixed by using Line Blend theory on the colour value randomized which was effected the different experimental result of 2 glaze formulas and Raku kiln, blend with saw dust, husk and rice straws to smoked for the different beautifulness as the nature of Raku kiln.

Raku kiln building, experimented into 2 manners, hexagon and square with open top of both kilns. The kiln structure was metal and covered inside with insulated fiber ceramic sheet for 3 covers, 2 burners. By testing the flame capacity to meet the similar property, heat and flaming time and similar fuel saving, different at building format with different easiness and difficulty as well as beautifulness.

The technology transmitted and presented the study result and research to the business practitioners both of theory and raw material prepared operation, Raku mold clay from Dan Kwian mold clay, forming, Raku glaze and Raku kiln building, flaming method and the follow up found that the practitioners able to use the technology and the method from the training and transmitting to a useful production of Dan Kwian ceramic, from the mold Raku clay adjustment to meet the production requirement and applied to solve the cracked problem of Dan Kwian clay included Raku kiln building for own purpose which was suit the small work piece and glaze experiment. From the technology transmitted by the practitioners aimed to change and enhanced its work and meet the market competition more than it is as present.

Keywords : Raku Clay Raku Klin RakuGlaze Dan Kwian Clay