

Benefiting from discovered scientific facts about Islamic ceramic with metallic luster and the possibility of artistic reproduction.

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Abstract :

The Islamic ceramic is a global artistic phenomenon and one of the components of Islamic art , skill and experience of Islamic potter confirmed when produced ceramic with metallic luster .

Research presents recent discovered scientific facts about ceramic with metallic luster decoration which produced through Islamic periods since emergence of abbasid , fatimid dynasty to Moresque Research aims to recognition this scientific facts , and how to benefit from it to reproduce Islamic luster .

Research follow analytical methodology by analyze informations about composition of clay body , recipies of glaze and luster layer.

Research follow experimental methodology by operating experimentations to get Islamic luster colors and determines suitable firing and reduction temperatures , also ceramic decal technique was used to reproduce Islamic luster designs.

The results of research was that ceramic decal is the most suitable technique for reproduction of Islamic ceramic luster designs because it is very cheap and achieves high resolution .

We must use silver , copper compounds such as : nitrates , carbonates , chlorides to obtain luster , also we prefer to use cinnabar to improve reduction .

Research found that color of luster changes in the same design and recipe depends on thickness of printing , the shape of design

(solid or halftone) , temperature of firing , and intensity of reduction .

Keywords

Luster - Islamic Ceramic - decal - Reproduction