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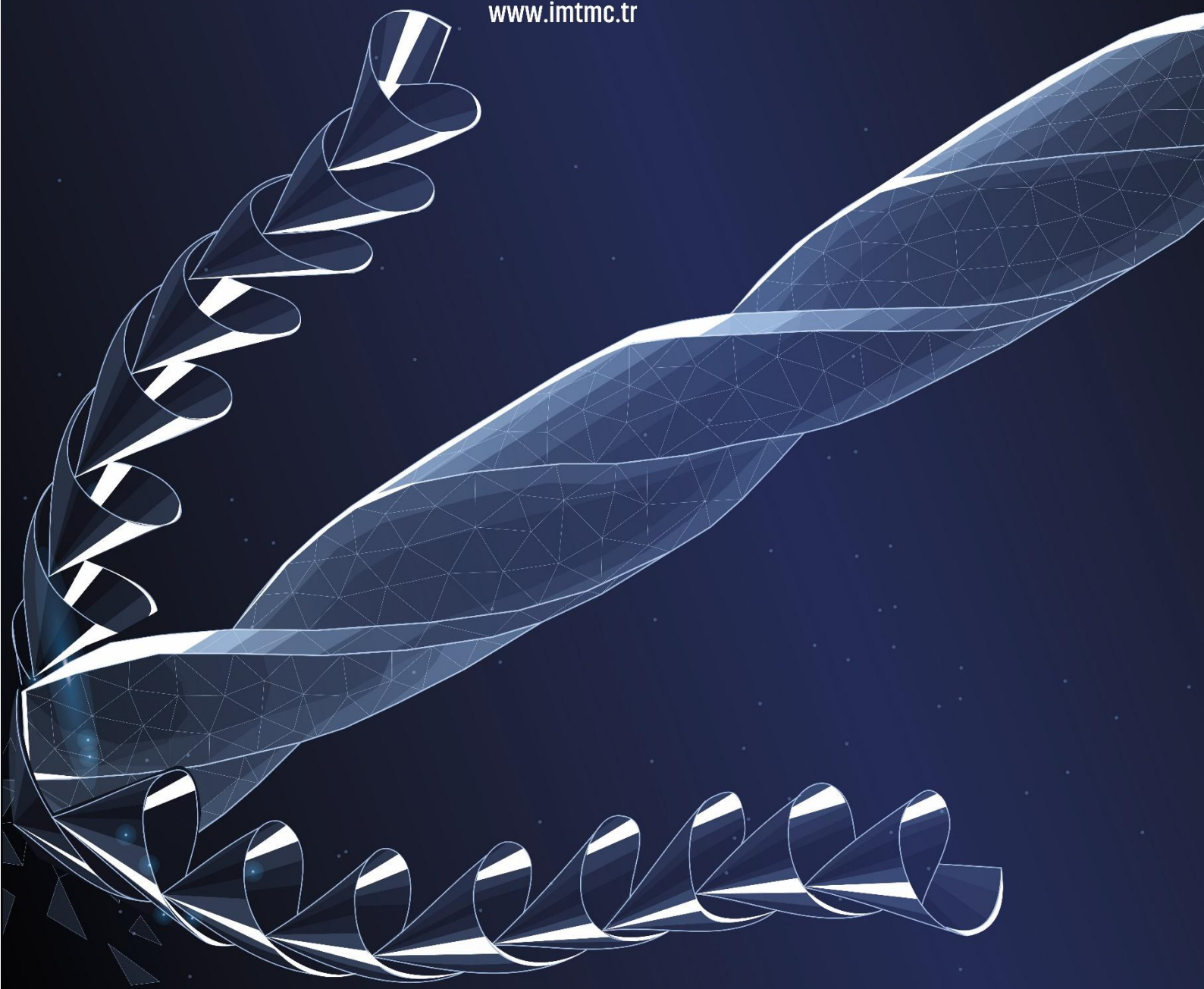
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Traditional, Clay-Based Ceramics

INVESTIGATION OF the EFFECTS of LUSTER GLAZES ON CHAMOTTE BODIES

Merve Öztorun [1], Doç.Dr. Nermin Demirkol[1],

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Luster is a thin film layer formed on the glaze surface. This thin film layer is formedwhen the metal ions in the glaze move towards thesurface in the reduction environment.

In this study, Silver Nitrate (AgNO3) salt was used to create luster on the surface of theglaze. Leaded and alkaline glaze recipescontaining Silver Nitrate and various metal oxideswere prepared and applied with the help of a brushon test tablets obtained from chamotte clay andfired at 1000oC. Glazed test tablets were fired in a gas oven at 1000oC. When the oven cooled downto 850oC, the test tablets were taken out of theoven with the help of tongs and subjected toreduction process.The luster glazes obtained at theend of the reduction process were analyzed byoptical microscope, SEM, EDS and XRD analysis.

The fired biscuit pieces (chamotte) in the chamotte clay caused the surface to have a rough structure. It was observed that the lustereffect increased when the glaze was appliedthicker.

In addition to the luster effect, a different artistic effect has also emerged due to thetextured appearance of the surfaces obtained.AcknowledgementsThis study was supported by Kocaeli University Scientific Research Projects Coordination Unitwith Project Number: SYL-2024-3781. As all authors, we would like to express our gratitude to Kocaeli University Scientific Research Projects Coordination Unit for their support.

Keywords: Luster, Glaze, Ceramic, Reduction, Chamotte

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