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## Color Development of Zircon by Gas Furnace

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**Abstract:** The objective of this research is to present the color development of zircon by gas furnace. The reddish brown zircons from Boh Kha, Cambodia were heated in reducing condition with the temperature at 900°C for 2 hours. Before heat treatment, the specimens were classified into 2 groups including dark reddish brown and light reddish brown zircon. In order to study the color change of zircon before and after heat treatment, UV/VIS/NIR spectrophotometer was employed for color index measurement (CIE L\*a\*b\* color index) and absorption measurement. The heat treatment in reducing condition changes the reddish brown color of zircon to turn into blue shade. After fading test, the color of heat treated zircon change to green-blue.

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