

PICTURE OF ITEM(S)



Picture is not actual size. The color of the item(s)
and the color of the picture may be different.

ALGT COLORED STONE IDENTIFICATION REPORT

IDENTIFICATION

Species Natural Beryl
Variety Emerald

DESCRIPTION

Shape & Cutting Style Oval, Mixed Cut
Measurements 10.09 x 7.87 x 4.59 mm
Carat Weight 2.40 Carat
Color Intense/Vivid Green
Transparency Transparent

ADDITIONAL GRADING CHARACTERISTICS

Color Quality Grade Fine Color Quality
Origin Zambia
Origin determination is an expert opinion based on microscopic examination, spectroscopic features and chemical trace element analysis.

COMMENTS

Insignificant amount of clarity enhancement in fissures.
Clarity enhancement in emeralds is a common practice in
trade. This enhancement is reversible at any time.

MAIN PROPERTIES OF EMERALD

Chemical Composition $\text{Be}_3\text{Al}_2(\text{SiO}_3)_6$
Crystal System Hexagonal
Mohs Hardness 7.5 - 8.0
Specific Gravity 2.62 - 2.80 g/cm³
Optical Character Uniaxial-
Refractive Index 1.560 - 1.602
Birefringence 0.004 - 0.010

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