

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 Pear, Mixed Cut
Measurements 16.50 x 9.29 x 6.04 mm
Carat Weight 5.47 Carat
Color Vivid/Deep Green
Transparency Transparent

ADDITIONAL GRADING CHARACTERISTICS

Color Quality Grade Fine Color Quality
Suggested Origin Zambia

COMMENTS

No / Insignificant fissure filling.

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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