

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 ..... Octagon Emerald, Step Cut  
Measurements ..... 6.35 x 5.34 x 4.55 mm  
Carat Weight ..... 1.23 Carat  
Color ..... Green (Bluish)  
Transparency ..... Transparent

**ADDITIONAL GRADING CHARACTERISTICS**

Origin ..... Colombia  
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/cm<sup>3</sup>  
Optical Character ..... Uniaxial-  
Refractive Index ..... 1.560 - 1.602  
Birefringence ..... 0.004 - 0.010

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