

PICTURE OF ITEM(S)



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

DETAIL



ALGT COLORED STONE IDENTIFICATION REPORT

IDENTIFICATION

Species ..... Natural Beryl  
Variety ..... Emerald and Emerald in Matrix

DESCRIPTION

Shape & Cutting Style ..... Irregular (Rough)  
Total Grams Weight ..... 6027 Grams  
Color ..... Light Green to Dark Green  
Transparency ..... Translucent - Opaque

ADDITIONAL GRADING CHARACTERISTICS

Origin ..... Brazil  
Origin determination is an expert opinion based on microscopic examination, spectroscopic features and chemical trace element analysis.

COMMENTS

Bag number : 22.43.

Size : Melee, Small and few Medium size

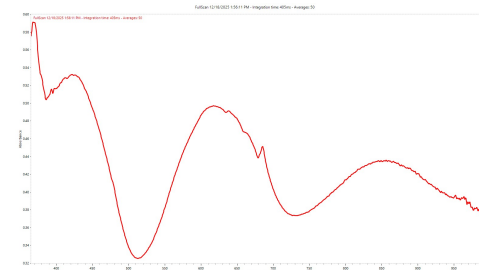
Commercial Quality, most stones with matrix (host rock)

Weight is approximate (+/- 1 g), and includes the plastic bag

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  $\text{g/cm}^3$   
Optical Character ..... Uniaxial-  
Refractive Index ..... 1.560 - 1.602  
Birefringence ..... 0.004 - 0.010

UV-VIS-NIR SPECTRUM



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