

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 5956 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 : 12.23.

Size : Melee and Small with some Medium size

Commercial Quality, most stones with matrix (host rock)

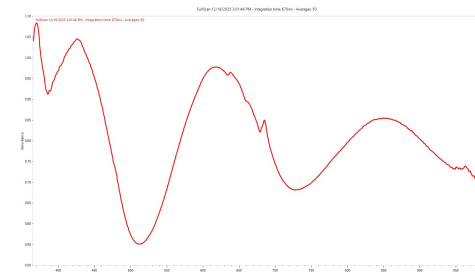
Few near-gem quality stones present in small sizes

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 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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