

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 5503 Grams
 Color Green to Deep Green
 Transparency Semi-transparent - 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 : 88.196.

Size : Melee, Small and some Medium size

Commercial Quality to Near-gem Quality, fewer stones with matrix (host rock)

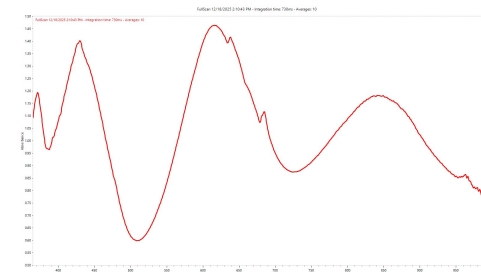
Some Gem Quality stones present

Weight is approximate (+/- 1g), 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/cm³
 Optical Character Uniaxial-
 Refractive Index 1.560 - 1.602
 Birefringence 0.004 - 0.010

UV-VIS-NIR SPECTRUM



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