



INTERNATIONAL GEMOLOGICAL INSTITUTE

COLORED STONE REPORT

April 1, 2021

IGI Report Number

470130037

Species

NATURAL CORUNDUM

Variety

RUBY

Shape and Cutting Style

EMERALD CUT

Weight

2.37 CARATS

Measurements

8.34 x 6.25 x 4.22 mm

Color and Transparency

PURPLISH RED,
TRANSLUCENT

Characteristics

NATURAL INCLUSION(S)
PATTERN.
NO INDICATIONS OF
TREATMENT HAVE BEEN
FOUND

Comments:
Included



OPTICAL and PHYSICAL PROPERTIES

Refractive Index

1.762 - 1.770

Birefringence

0.008

Optic Character

UNIAXIAL

Optic Sign

-

Specific Gravity

4.00

Optical and physical properties are approximate values



Photography is approximate

Species & Variety

Gems may be classified in different species, according to their basic chemical composition and crystal structure; within a certain species, small differences in composition may result in different colors, or varieties.

The way that light interacts with the gem may create some astonishing optical phenomena, such as a star, a cat's eye effect or change of color, in different varieties

Transparency

As light passes through a gemstone, part of it, if not all, will be absorbed, and part will be transmitted. The more light that is absorbed the less transparent the stone will be.

Characteristics

Internal characteristics are the fingerprints of a gemstone. Not only do they provide essential information about the formation, but also the possible geological and geographical region where they originate from. Sometimes they also provide information about whether the gemstone has been treated.

Refractive Index

When light passes through air and enters a gemstone it slows down due to a difference in the medium. The ratio between the speed of light in air and in a particular medium is known as the Refractive Index.

Optic Character

Determining how light travels through the crystal. Using a range of specialized instruments, we will be able to establish if the stone is isotropic or anisotropic, uniaxial or biaxial.

Specific Gravity

Specific gravity is the ratio of the density of the gemstone to the density of an equal volume of water.

All IGI Laboratories employ a wide range of state-of-the-art equipment, like FTIR and Raman spectrometers, all of which give a unique spectral graph for different gemstones. They can reveal the species of the gemstone, treatments and, at times, even the geographic origin.



COLORED STONE REPORT



April 1, 2021

IGI Report Number

470130037

Species

NATURAL CORUNDUM

Variety

RUBY

Shape and Cutting Style

EMERALD CUT

Weight

2.37 CARATS

Measurements

8.34 x 6.25 x 4.22 mm

Color and Transparency

PURPLISH RED,
TRANSLUCENT

Characteristics

NATURAL INCLUSION(S) PATTERN.
NO INDICATIONS OF TREATMENT.
HAVE BEEN FOUND

Comments:

Included



IGI

April 1, 2021

470130037

EMERALD CUT

2.37 CARATS

NATURAL CORUNDUM

RUBY

