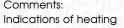


COLORED STONE REPORT ELECTRONIC COPY

June 12, 2024 IGI Report Number 625493887 Species NATURAL CORUNDUM **VIOLET SAPPHIRE** Variety Shape and Cutting Style **OVAL MIXED CUT** Weight 1.87 CARAT Measurements 8.13 x 7.27 x 4.17 mm VERY LIGHT VIOLET, Color and Transparency **TRANSPARENT** NATURAL INCLUSION(S) Characteristics **PATTERN**



Photography is approximate



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



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 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-theart 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 aeographic origin.



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Measurements

June 12, 2024

IGI Report Number

Species NATURAL CORUNDUM

625493887

8.13 x 7.27 x 4.17 mm

VIOLET SAPPHIRE Variety

Shape and Cutting Style OVAL MIXED CUT

Weight 1.87 CARAT

Color and Transparency VERY LIGHT VIOLET, TRANSPARENT

Characteristics NATURAL INCLUSION(S) PATTERN

Comments:

Indications of heating





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June 12, 2024 625493887 **OVAL MIXED CUT** 1.87 CARAT NATURAL CORUNDUM VIOLET SAPPHIRE