INTERNATIONAL GEMOLOGICAL INSTITUTE

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COLORED STONE REPORT

February 9, 2026

IGI Report Number	769614717
Species	NATURAL CORUNDUM
Variety	SAPPHIRE
Shape and Cutting Style	CUSHION MIXED CUT
Weight	2.53 CARATS
Measurements	7.90 X 7.06 X 4.60 mm
Color and Transparency	DEEP VIOLETISH BLUE, TRANSPARENT
Characteristics	NATURAL INCLUSION(S) PATTERN. NO INDICATIONS OF TREATMENT HAVE BEEN FOUND

Photography is approximate



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

www.igi.org

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 results 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 inclusions of a gemstone. Not only do they provide essential information about the formation but also the conditions in which the gemstone is grown.

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-the-art equipment, which provides comprehensive and accurate assessment of different gemstones.

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