



INTERNATIONAL
GEMOLOGICAL
INSTITUTE

ELECTRONIC COPY

COLORED STONE REPORT

May 1, 2025	
IGI Report Number	698550302
Species	NATURAL ZOISITE
Variety	TANZANITE
Shape and Cutting Style	OVAL MODIFIED BRILLIANT
Weight	2.83 CARATS
Measurements	10.09 x 7.93 x 5.26 mm
Color and Transparency	BLuish VIOLET, TRANSPARENT
Characteristics	NATURAL CHARACTERISTICS

Comments:
Tanzanites are commonly enhanced by heat, indicative evidence is typically lacking.



OPTICAL and PHYSICAL PROPERTIES	
Refractive Index	1.691 - 1.700
Birefringence	0.009
Optic Character	BIAXIAL
Optic Sign	+
Specific Gravity	3.35

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 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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