



**INTERNATIONAL  
GEMOLOGICAL  
INSTITUTE**

**ELECTRONIC COPY**

**COLORED STONE REPORT**

May 1, 2025

IGI Report Number 698550392

Species NATURAL PYROPE-ALMANDITE GARNET

Variety RHODOLITE

Shape and Cutting Style OVAL MIXED CUT

Total Weight 2 STONES -5.45 CARATS

Weight Each 2.67 & 2.77 Carats

Measurements Each 8.85 x 7.13 x 4.94 mm & 8.85 x 7.17 x 5.08 mm

Color and Transparency REDDISH PURPLE, TRANSPARENT

Characteristics NATURAL INCLUSION(S) PATTERN



**OPTICAL and PHYSICAL PROPERTIES**

Refractive Index 1.760

Specific Gravity 3.84

*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 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 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, which provides comprehensive and accurate assessment of different gemstones.



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Photography is approximate