

Global Gemological Laboratory Sdn Bhd (“GlobalGem”) Reports reflect the findings and professional opinion of our qualified gemologists based on the results of approved gemological and advanced scientific instruments testing. It identifies the nature of the gemstones whether it is natural or synthetic, and includes any detectable possible enhancements, along with an opinion on the geographic origin if determinable and requested by client. The photograph or image of the object described in our Reports are only approximate and may differ in size and color with the actual. The object examined can be modified and/or enhanced after the issuance of the Report. Our Report does not constitute a guarantee for or an appraisal of the object described herein. GlobalGem assumes no responsibility for any damage or loss, or claims by third parties, which may arise from the issuance, use or misuse of this Report. Please always verify our Reports online using our report check verification system to confirm the authenticity of our Reports.

Origin

Origin determination is an expert opinion. At GlobalGem, geographic origin is based on comparisons with the internal characteristics, chemical and physical properties, and spectroscopic data recorded for reference gemstones of known identity. Designations of geographic origin are statements of opinion indicating the most possible origin. They do not guarantee the provenance of particular gemstones, as individual gemstones from different sources may possess very similar characteristics and properties.

Enhancement

Enhancement, also known as treatment, is commonly applied to many natural gemstones. It is any additional process other than cutting and polishing that improves gemstone’s appearance and/or durability. Many gemstones are treated by different methods to improve appearance and/or change color. In some cases, treatment methods such as heating and irradiation cannot be detected. GlobalGem provides disclosure notes and information on detected enhancement.

Heating and Irradiation

Many gemstones are commonly treated with heat and/or irradiation to improve and/or change color. In certain cases, such treatments cannot be detected. It is also possible for this heating to occur naturally when the gemstone is in the earth and/or irradiated in the earth over a long period of time. With today’s testing method and technology and also in accordance with international gemological laboratory standards, some gems are very difficult if not impossible to determine if the heating and/or irradiation of such gemstones is treatment by man or occurred naturally in the earth.

The following list (not comprehensive) are gemstones that maybe subjected to heating or irradiation. It ranges from seldom – red tourmaline to almost always – tanzanite. Other gemstones might also be treated but these are the most usual.

Species	Variety/ Color	Heat		Irradiation
Beryl	Aquamarine	v		
	Morganite			v
	Golden			v
Garnet	Demantoid	v		
Quartz	Smoky			v
	Amethyst	v		
	Greenish yellow	v	or	v
	Green			
Spodumene	Kunzite			v
Topaz	Blue	v	and	v
	Brown			v
	Pink	v		
Tourmaline	Pink to red			v
	Blue	v		
	Purple			v
	Green	v		
Zircon	Blue	v		
	Colorless	v		
	Red	v		
Zoisite	Tanzanite	v		

Credit : GIA

Other Possible Treatments

Coating (C) : This treatment is used to change stone’s appearance, basically color, by applying a coloring agent, like paint, to the gemstone’s surface. Coating is not stable type of treatment, it maybe scratched or rubbed off.

Dyeing (D) : Some porous or fractured gems are exposed by colored dyes change their color.

Assembled Stone (A): An assembled stone is one constructed of two or more glued materials. Usually purpose of such kind of materials is to fraud the costumer.

Quality and Rarity

Any opinion on the quality and rarity of the gemstone is issued provided the gemstone meets the internal conditions, criteria and requirements of GlobalGem. GlobalGem solely reserves its right to refuse issuing a report for any gemstones at any time without explanation.

Please refer to our website www.globalgemological.com for the latest Disclosure Notes on Enhancement and Limitations.

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