## Warning: this version was completed with Google Translate, it certainly contains errors or inaccuracies.

## Technical data sheet – general:

## Chameleon diamond (Colour Change)

Gemma –	(Italian – Diamante Camaleonte)	( Arabic - لماس الكاميليون Almas Alkameleon)	photo
names	( <b>French</b> - Diamant caméléon)	Khamelyon-almas)	•
names	( <b>Spanish</b> - Diamante camaleón) ( <b>Portuguese</b> - Diamante camaleão)	( Mandarin -变色龙钻石 Biàn cà láng zuànshí)	
	( <b>Thai</b> - เพชรก ameleon (Phet kamelon) )	( <b>Swahili</b> - Almasi ya kameleon)	A LOT DAY
	(German - Chamäleon-Diamant)	( <b>Hindi</b> - चेमिलियन हीरा Chameleon Heera )	and the second se
Colors (GIA)	Chameleon diamonds : Cha	meleon diamonds are very	
	peculiar due to their ability	(as the name suggests) to	
	change color (normally from	yellow to green and under	
	very special conditions).		
	Color-changing diamonds		A A A A A A A A A A A A A A A A A A A
	Fancy blue-gray diamond	ls colored by hydrogen	
	defects sometimes show a <b>c</b>	different color appearance	THE A LEAD
	under different light sources	. Color gradation occurs in	
	daylight conditions, while	e incandescent lighting	ALC T AS AN
	produces a more purple colo	or.	New York
	Two-tone diamonds : These	potentially exist, but these	CALL!
	stones are rarely cut to show	more than one color.	200
Cause of	"Chameleon" diamonds:		
Color	Cause of color · The reasons	for these changes have not l	peen fully revealed by science
COIDI	It is known that when these	stones are kept in the dark	(and therefore show an effect
	called tenebrescence) or w	ben they are heated to tem	peratures of <b>150 degrees</b> or in
	the light after a prolonged pe	eriod of darkness, they become	me vellow, while when exposed
	to suplight they return green		ne yellow, while when exposed
	Chameleons are type IgA d	<b>liamonds</b> (usually with mode	erate N-nitrogen content) that
	exhibit absorption bands at t	the broad <b>180</b> nm (structure)	unknown) and 700 nm (related
	to H bydrogen or Ni nickell	of the visible spectrum w	hich they often give rise to g
	aroopish buo (usually brown)	ish or grovish or sometimes	defined as "salty"). These domains
	greenish hoe (usually blown	usually high concentrations	of hydrogon, as well as trace
		in their envetal structure. T	bis nitragen bydragen complex
	amounts of nickel and nitroge	en, in inell crysici siluciure. I	nis hillogen-nydrogen complex
		ne chameleon ellect. Exp	
	alamonas nave iuminescent	and phosphorescent prope	mes.
	some of them maintain this	s new snade for more than	15 minutes even after just 60
	seconds of exposure to o	a UV lamp. Additionally,	some can emit yellow light
	pnosphorescence for up to c	an nour after furning off the li	ght source.
	Inere are two main varieties	of chameleon diamonas:	
	"Classic" Chameleon Diamo	nd: This type of diamona ca	n range from light olive to dark
	yellow when heated or expo	osed to light. The color return	ns to its natural state when the
	diamond is exposed to cold	or prolonged darkness.	
	"Reverse" Chameleon Diam	ond: This variety has a brigh	ter yellow fint and furns slightly
	olive when exposed to prolo	onged darkness. It returns to	its natural golden color when
	brought back to light. "Rever	se" diamonds do not react t	o increases in temperature.
	GIA Grading: When a colore	d diamond is submitted to th	e GIA for a grading report, the
	standard procedure is to rec	ord its visible absorption spe	ctrum. To record the spectrum,
	the diamond is illuminated w	with light and as it passes thro	ough the diamond, some of it is
	absorbed and some of it is fi	ransmitted. The transmitted [	part is what we perceive to be
	the color of the diamond. Ch	ameleon diamonds contain	at least two harmonious colors.
	Hues always include some s	ort ot color combination. C	ombinations always include at
	least two of the following col	lors: green, yellow, brown ar	nd gray.
	Fancy chameleon diamond	s are graded (not by GIA)	using the following terms: Light
	Chameleon, Fancy Light Cho	ameleon, Fancy Chameleon	, Fancy Deep Chameleon, and
	Fancy Dark Chameleon		
	GRAY-TO-BLUE-TO-VIOLET H	YDROGEN-RICH or HGBV di	amonds from the now closed
	Argyle mine, Australia. HGBV	diamonds, especially those	with purple hues, exhibit slight
	color differences under diffe	erent lighting conditions. The	se with strong color saturation

	tend to appear slig slightly more purp toned stones have so they are more s in the blue and re them color-chang Allochromatic Gel	ghtly bluer un le under inc transmission ensitive to lig ed waveleng ing diamone m	nder fluorescent lighting candescent lighting (str n windows positioned fu ghting conditions, espec gths. However, the diff <b>ds</b> .	g (strongest in rongest in the urther apart th cially those wit erence <b>is not</b>	the blue region) and red region). Purple- an blue-toned ones, th different intensities <b>enough to consider</b>	
Classification	Mineral clo Native non-me mineral	<b>ass</b> etallic,	<b>Species</b> – Group (mineral) Diamond - //	Cham	Variety eleon or others	
Optical properties	Specific Gravity: 3,516–3,525 Municipality: 3.52	Pc Birefringe of polarized	RE: 2,417 lariscope : SR nce: The birefringence d light is normally present in diamonds	Characte roptical Isotropic	Pleochroism NO	
11-b4	<b>Luster (lus</b> Diar	er (luster) – luster of the fracture Diamantine - adamantine		Dispersion (fire) 0.044		
Light	Fluorescence SWUV (254 nm) : inert LWUV (365nm) :		Red			
Form	Crystalline dress Octahedral, dodecahedral, cubo- octahedral, spherical or cubic Melting point: 4,027°C, Burns above 700°C in air.		Phenomenal optic effects /	cal Cry	Crystalline system Cubic Monometric Crystal class	
Chemical formula	Carbon (typically 99.95%) Traces of other elements (nitrogen, boron, hydrogen etc.) C					
		•			Net in directive	
					NOT INDICATIVE	
Fracture	<b>Flaking</b> Distinct – octo (4 directio	<b>)</b> ahedral ons)	Breakup- Parting Gemination law of common spinel (wh produces "macle"	<b>g</b> the Co iich ")	Fracture Somplex, irregular	
Fracture Durability	Flaking Distinct – octo (4 direction Hardness (Mohe 10; 1600 (with directional hardr	ahedral ons) 5) - Absolute	Breakup- Parting Gemination law of common spinel (wh produces "macle" Toughness Fair-good	g the Co iich ") Stab	Fracture omplex, irregular fility (heat, light, chemicals) Excellent	
Fracture Durability Clarity - characteristics	Flaking Distinct – octor (4 direction Hardness (Mohs 10; 1600 (with directional hardr Typical inclusion (for chameleon or the GIA has a differed and a different diamonds with m significant value if exception to this minevitably decreal chameleon diamon offered these jewo offers. Today, these when it comes to reputable dealers Guy: NA	Absolute     Absolute     S) - Absolute     Dess variations)     S: The inclusion     ses) or synthe     erent point of     monds, und     any inclusion     they show     rule: when in     ses the value     onds had of     els and set     e stones car     niche items     who have of	Breakup- Parting Gemination law of common spinel (wh produces "macle" Toughness Fair-good ons correspond to those etic diamonds. Regardin f view. The position of th erlines that color is the pood color visible from nclusions pose a threat up of the gemstone. considerable difficulty the prices as they pleat be found on some onli is such as chameleon con a solid reputation. Transparency	g the Co iich ") Stab e that appear ng the clarity of he GIA, the hig dominant fa o a low clari n the front. O t to the gems Until recently, finding them. ased , accep ne retailer site liamonds, it is (commercia	Fracture proplex, irregular Fracture proplex, irregular Fracture proplex, irregular Fracture proplex, irregular Fracture fractu	
Fracture Durability Clarity - characteristics Deposits - types of rocks	Flaking Distinct – octor (4 direction Hardness (Mohs 10; 1600 (with directional harder Typical inclusion (for chameleon or the GIA has a different evaluation of diar diamonds with m significant value if exception to this r inevitably decrea chameleon diamon offered these jewo offers. Today, these when it comes to reputable dealers Guy: NA They are recoverer rough stones), how deposits. Geological age	Cons)  C	Breakup- Parting Gemination law of common spinel (wh produces "macle" Toughness Fair-good ons correspond to those etic diamonds. Regardin f view. The position of the erlines that color is the post that would lead the good color visible from naclusions pose a threat up of the gemstone. considerable difficulty the prices as they pleat the solid reputation. Transparency lites typical of type I di are extremely rare and pollions of years. Uncertor	g the Co ich ich ") Stab e that appear ng the clarity of he GIA, the hig dominant fa o a low clarit n the front. O t to the gems Until recently, finding them. ased , accep ne retailer site liamonds, it is (commercia Transparent amonds (abo d generally a bin.	Fracture provide the second s	
Fracture Durability Clarity - characteristics Deposits - types of rocks Characteristics of rough stones	Flaking Distinct – octor (4 direction Hardness (Mohs 10; 1600 (with directional hardr Typical inclusion (for chameleon or the GIA has a diffe evaluation of diar diamonds with m significant value if exception to this r inevitably decrea chameleon diam offered these jew offers. Today, these when it comes to reputable dealers Guy: NA They are recoverer rough stones), how deposits. Geological age Although they car	Cons)  C	Breakup- Parting Gemination law of common spinel (wh produces "macle" Toughness Fair-good ons correspond to those etic diamonds. Regardin f view. The position of th erlines that color is the pood color visible from naclusions pose a threat up of the gemstone. considerable difficulty the prices as they pleat be found on some onli such as chameleon a solid reputation. Transparency lites typical of type I di are extremely rare and pillions of years. Uncerta us shapes, they are gene dron .	g the Co ich ") Stab e that appear ng the clarity of he GIA, the hig dominant fa o a low clari n the front. O t to the gems Until recently, finding them. ased , accep ne retailer site liamonds, it is (commercia Transparent famonds (abo d generally a ain. erally recovere	Fracture provide the solution of the solution	

	Although the exact origins remain unknown, it is believed that in the past approximately
	40% of chameleon diamonds were purchased in India, 30% in Tel Aviv and the last 30%
	is said to be in Antwerp. Today (2023) most of them appear on specialized online sites.
Year of	<b>1866:</b> The first known discovery of a chameleon diamond dates back to 1866,
discovery	
History	Chameleon diamonds
	1866 : The oldest known chameleon diamond is said to date from this year, discovered
	by Georges Halphen, a diamond merchant in Paris.
	<b>1943</b> : The term "chameleon diamond" was first used to describe these color-changing
	diamonds in the jewelry industry. It was Peter Kaplan who first recorded a diamond
	chameleon. By pure chance, he noticed that a diamond placed on a hot polishing
	Wheel slowly began to change its nue.
	vely early 1970s. One story from this period tells of a customer who purchased a light
	diamond had turned dark green
	<b>2005</b> : A unique set of 39 chameleon diamonds, with weights ranging from 0.29 to 1.93
	carats were reported to show temporary color changes when heated to around 150°C
	and, for some of them, after a long period dark storage (i.e. thermochromic and
	photochromic color changes, respectively).
	Color-changing synthetic diamonds
	Among the best-known producers of this rare type of stone are some Russian companies,
	already famous for the creation of other synthetic gems.
	The Russian Colored Stone (RCS) Company, established in 1993. RCS has set out to
	promote a number of very attractive natural gemstones, including chromium diopside
	and demantoid from Russia, two-color topaz and heliodor beryl from Ukraine, and spinel
	and scapolite from lajikistan. In 1994, in parallel with these programs, diamond
	<b>Cultivation</b> programs also began under the "ultimate Created Diamonds" brand.
	fancy diamonds in synthetic form resulting in spectracular vallow, blue, orange, pink
	and alexandrite-like color changing effect diamonds through irradiation and/or or heat
	and pressurized treatment
	<b>Name</b> : The name diamond comes from the Ancient Greek & Sauac (adámas)
	"unchangeable" "indestructible" "indomitable" from $\dot{\alpha}$ - (a-) "un-" + $\delta$ audam (damáō)
	"I overcome", or I "tame".
	In India and surrounding areas: Etymology: Vai = Mouth, Ra = Light, Vaira = Portal of Light.
	In Sanskrit it also took on the meaning of diamond club or scepter.
	The term vajra indicated 2 distinct things: the "diamond" or the "lightning". It also referred
	to a sort of battle weapon used by the God Indra. In Tibetan Buddhism this same stone-
	weapon object is referred to as Dorje .
	<b>Chameleon:</b> The word "chameleon" comes from the Ancient Greek χαμαιλέων
	(khamaileon), meaning " <b>creeping lion</b> ". The term is composed of two words: xaµai
	(knamal), meaning on the ground, and <i>kewy</i> (leon), meaning lion.
	any animal that changed color, but over time it became associated specifically with
	the chameleon, a reptile that has the ability to change the appearance of its skin to
	blend in with its surroundings.
	Synthetic thermochromic diamond:
	In 2022, synthetic diamond company Element Six announced that it had developed a
	new synthetic thermochromic diamond that can change color from yellow to red. The
	diamond was created using a laser beam growth process and contains a small amount
	of boron. (poorly documented news)
	Other trade names: Chameleon (diamonds),
	Variety : /
	Chameleon: classic (changes its snade from olive green to dark yellow when heated or
	te moved from sunlightly of reverso/inverse (changes color in reverse, going from yellow
Attributed	These stopes have not yet found their place in the expteric sphere of dems. Little known
proportion	and still extremely rare, they have not vet been analyzed to understand what benefits
higherines	they can bring for those who follow this approach.
	Planet: NA
	Month: NA Zodiac sian: NA

	Chakras: NA
Treatments	chameleon diamonds are more common and less expensive . Natural or synthetic
	stones are subjected to an irradiation and heating process to obtain their characteristic
	color. Only specialized laboratories are able to reveal the non-natural origin of the color.
Synthetic	IN general, there are 2 types of single crystal synthetic diamonds: CVD (chemical vapor
counterpart	deposition) diamond and <b>HPHT</b> (high pressure, high temperature) diamond. These can
	also provide the basis for the creation of chameleon diamonds whose color is
	determined by human intervention.
	These gems, known for their unusual temporary color change, are an exceptional rarity
	In nature. Their shade may change slightly when exposed to a slight change in
	a dark group to a lighter tang of vellow triggered by gentle begting is the result of the
	a dark green to a lighter tone of yellow, higgered by genile healing, is the result of the
	Vork conducted an in depth examination of two specimens of chameleon diamonds:
	a refined 0.35-carat Eancy Deen vellow-green marguise and a 0.27-carat Eancy
	marguise with vellowish-green hues Deep. After being exposed to short-wave UV light.
	both diamonds exhibited notable phosphorescence that ranged from blue to yellow, a
	characteristic often found in natural chameleon diamonds. UV-Vis absorption spectra
	revealed a broad absorption band around 480 nm, an expected characteristic for these
	types of diamonds. However, unexpectedly, a distinctive peak also emerged at 741 nm,
	known as GR1 (general radiation damage), which may contribute to the green color.
	This radiation-related characteristic is not found in untreated natural chameleon
	<b>diamonds</b> , leading to the conclusion that both stones had been subjected to artificial
	Irradiation. This result is surprising, since chameleon diamonds are not usually subjected
	was not previously understand or known prior to the irradiation process. However, it is
	crucial to keep in mind that if exposed to prolonged heating, treated chameleon
	diamonds may experience a permanent color change.
Maycho	
	Moissanite synthetic (separable through: doubling, dispersion, inclusions), Zircon
confused with	Moissanite synthetic (separable through: doubling, dispersion, inclusions), Zircon colorless (separable through: double regrative), Cubic Zirconium/CZ (separable
confused with	Moissanite synthetic (separable through: doubling, dispersion, inclusions), Zircon colorless (separable through: double regrative), Cubic Zirconium/CZ (separable through: optical character, spectrum, doubling), Strontium Titanate (separable through:
confused with	Moissanite synthetic (separable through: doubling, dispersion, inclusions), Zircon colorless (separable through: double regrative), Cubic Zirconium/CZ (separable through: optical character, spectrum, doubling), Strontium Titanate (separable through: dispersion, SG, inclusions), YAG. (separable through: SG, dispersion), GGG (separable
confused with	Moissanite synthetic (separable through: doubling, dispersion, inclusions), Zircon colorless (separable through: double regrative), Cubic Zirconium/CZ (separable through: optical character, spectrum, doubling), Strontium Titanate (separable through: dispersion, SG, inclusions), YAG. (separable through: SG, dispersion), GGG (separable through: SG, luster), Synthetic Rutile (separable through: optical character, dispersion,
confused with	Moissanite synthetic (separable through: doubling, dispersion, inclusions), Zircon colorless (separable through: double regrative), Cubic Zirconium/CZ (separable through: optical character, spectrum, doubling), Strontium Titanate (separable through: dispersion, SG, inclusions), YAG. (separable through: SG, dispersion), GGG (separable through: SG, luster), Synthetic Rutile (separable through: optical character, dispersion, doubling), Natural/Synthetic Sapphire/Spinel colorless (separable through: optical
confused with	Moissanite synthetic (separable through: doubling, dispersion, inclusions), Zircon colorless (separable through: double regrative), Cubic Zirconium/CZ (separable through: optical character, spectrum, doubling), Strontium Titanate (separable through: dispersion, SG, inclusions), YAG. (separable through: SG, dispersion), GGG (separable through: SG, luster), Synthetic Rutile (separable through: optical character, dispersion, doubling), Natural/Synthetic Sapphire/Spinel colorless (separable through: optical character, brightness, dispersion), Doublets/triplets (separable through: inclusions, brightness)
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Indicative gemological tests	Moissanite synthetic (separable through: doubling, dispersion, inclusions), Zircon colorless (separable through: double regrative), Cubic Zirconium/CZ (separable through: optical character, spectrum, doubling), Strontium Titanate (separable through: dispersion, SG, inclusions), YAG. (separable through: SG, dispersion), GGG (separable through: SG, luster), Synthetic Rutile (separable through: optical character, dispersion, doubling), Natural/Synthetic Sapphire/Spinel colorless (separable through: optical character, brightness, dispersion), Doublets/triplets (separable through: inclusions, brightness). The visual effect alone is indicative for these stones (both natural and treated chameleons). The separation from imitations can be carried out using a modern tester
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Indicative gemological tests Value (2021) Typical cut	Moissanite synthetic (separable through: doubling, dispersion, inclusions), Zircon colorless (separable through: double regrative), Cubic Zirconium/CZ (separable through: optical character, spectrum, doubling), Strontium Titanate (separable through: dispersion, SG, inclusions), YAG . (separable through: SG, dispersion), GGG (separable through: SG, luster), Synthetic Rutile (separable through: optical character, dispersion, doubling), Natural/Synthetic Sapphire/Spinel colorless (separable through: optical character, dispersion), doubling), Natural/Synthetic Sapphire/Spinel colorless (separable through: optical character, brightness, dispersion), Doublets/triplets (separable through: inclusions, brightness).The visual effect alone is indicative for these stones (which is capable of detecting moissanite).Low: \$2,000/ct under the caratHigh : 1,000,000+\$/ct Like all rare stones, the shape of the rough and its characteristics determine the finalLow: \$2,000/ct under the carat
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Indicative gemological tests Value (2021) Typical cut Famous stones	Moissanitesynthetic (separable through: doubling, dispersion, inclusions), Zirconcolorless(separable through: double regrative), Cubic Zirconium/CZ (separablethrough: optical character, spectrum, doubling), Strontium Titanate (separable through:dispersion, SG, inclusions), YAG.(separable through: SG, dispersion), GGG (separablethrough: SG, luster), Synthetic Rutile (separable through: optical character, dispersion,doubling), Natural/Synthetic Sapphire/Spinel colorless(separable through: optical character, dispersion,doubling), Natural/Synthetic Sapphire/Spinel colorless(separable through: opticalcharacter, brightness, dispersion), Doublets/triplets(separable through: inclusions,brightness).Intervision from imitations can be carried out using a modern tester(which is capable of detecting moissanite).Low: \$2,000/ctHigh: 1,000,000+\$/ctMedium: \$10,000/ctLow: \$2,000/ct10 carats+1-2 caratsunder the caratLike all rare stones, the shape of the rough and its characteristics determine the finalshape of the diamond. Given the infrequency of chameleon diamonds in the jewelerymarket, it cannot be said that a typical cut exists.There was a famous diamond once owned by Pedro II, (nicknamed the Magnanimous,member of the Brazilian branch of the House of Braganza and last Emperor of Brazil,
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