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

Technical sheet - general: Dias poro (Zul tanite)

C	/ 7		/ Carrage Tultanit)	1	mb ala	
Gemma - names	(Italian - Zultanite) (English - diaspore- zultanite)		(German - Zultanit) Arabic - الزلتيت elevation) (Russian - Зултанит Zultanit) (Mandarin -祖坦 zǔ tǎn) (Swahili - Mzultani) (HIndi - जुल्तानाइट zultaanait)	photo		
Colors (GIA)	White, brown, colorless, pale yellow, greyish, greenish gray, lilac, pinkish.					
Cause of Color	Color: contains traces of iron, chromium, titanium and manganese. Cause of color change: the electronic transitions between different energy levels involving the 3d orbitals of the Fe3 + and Cr3 + trace elements in the zultanite give rise to the relatively high transmittance observed in the green region (about 500 nm) and in the red-orange region (600-780 nm) of the visible light.					
Classification	I .		pecies - Group (mineral)	Б.	Variety	
Online	Oxides - Hydrox		Diaspore - Diaspore	· · · · · · · · · · · · · · · · · · ·	- Iridescent diaspore	
Optical properties	Specific Gravity: 3.30-3.40 Municipality: 3,39	Po	: 1.682 - 1.752 lariscope : DR refraction: 0.040 - 0.048	er optical Positive biaxial	Pleochroism Strongly Tricroic: greenish under fluorescent light, pinkish brown under incandescent light.	
	Luster (luster) - luster of the fracture Vitreous, pearly - pearly in cleavage		Dispersion (fire) 0.020			
Light	Fluorescence SWUV: Red or green LWUV: Yellowish white			Phosphorescence NA		
Form	Crystalline dress Elongated plate crystals (tabular); even massive acicula needles; foliate or fibrosis.		Phenomenal optice effects Cangianza Cat attitude (rare		Crystalline system Orthorhombic Crystal class	
Chemical formula	AlO (OH)			100 650 6	trometer image	
Fracture	Flaking Perfect (1 direction) Bill (1 direction) Weak-traces (1 direction)		SI- Forms heart-shape geminations or pseud hexagonal aggregat	ed do-	Fracture Concoidal	
Durability	Hardness (Mohs 6.5-7; 86-1	•	Toughness Very fragile	Sta	bility (heat, light, chemicals)	
Clarity - characteristics	Typical inclusions: elongated fluid inclusions and planes of fluid inclusions. Thin black rutile needles and brown hexagonal crystals were also observed. Inclusion, lighter Fluid allungations and planes of fluid inclusions. This black rutile needles and brown hexagonal crystals were also observed.				llungati Rutilo nero	
	Type II Normally included Transparency (commercial) - transparent Transparent to translucent					

Deposits - types of rocks

The mineral diaspore occurs as a **weathering product of corundum or emery** and is found in granular limestones and other crystalline rocks. Well developed crystals are found in the emery deposits of the **Urals** and in Chester, Massachusetts, USA and in the kaolin at Schemnitz in Hungary. If obtainable in large quantities, it would be of economic importance as a source of aluminum. The difference between the common diaspore and what is called zultanite is that the former does not show iridescence, while the latter does.

Geological age: Small crystals may have formed at the end of the Proterozoic (2.5 billion to 541 million years ago), while macrocrystals may date back to paleocene (66-55.8 MA), eocene (55.8-33.9 MA) and oligocene (33.9-23 million years ago).

Characteristics of rough stones

Elongated acicular crystals; also stalactitic, foliate, scaly, scattered and massive.

Main deposits

The Marmaris area of Pinarcik village, Milas district, Muğla province in southwestern **Turkey** appears to be the source of all the large gem-quality crystals that have been faceted to date from a bauxite vein., or aluminum ore. Recently **new iridescent diaspore deposits have been discovered in Mong Hsu, Myanmar / Burma** (other common diaspore deposits: Mohnyin -Kachin, Pyin - Oo - Lwin -Mandalay, Salingyi, Loilen -Shan), and near the village of Ragha, in Goshta district, Nangarhar province, **Afghanistan**, which have a typical pink color.

Common diaspore deposits: Antartica (Larseman Hills, King George Island), Argentina (Andalgalá -Catamarca, Aldea Alpeg-Chubut , Picunches - Neuquén, Iglesia -San Juan), Australia (Pambula / Tempora-NSW, Ambalindum -NT, Williamstown -SA, Wartah -Tasmania, Mount Ida- Vic, Eudamullah Station-SA), Austria (Lölling-Carinthia, Felling-Lower Austria, Glanegg - Salzburg, Traibach - Styria, Obernberg am Brenner-Tirolo, Wayer -Upper Austria), Azerbaijian (Gedebey), Belarus (Babruysk), Belgium (Cahai), Bolivia (Cerro Tezna), Brazil (Paramirim das Crioulas -Bahia, Barro Alto-Goiás, Curionópolis -Pará, Jaú do Tocantins-Tocantins), **Bulgaria** (Madzharovo - Haskovo , Elshitsa-Pazardzhik, Bankya / Chelopech -Sofia), Cambodia (Battambana), Canada (Holberg -BC, Foxtrap -NFL-L, Val-des -Sources-Québec), Chile (Escondida -Antofagasta, El Morro-Atacama, El Indio- Coquimbo , Pozo Almonte - Tarapacá), China (Nanchuan -Chongqing, Shoushan / Longyan -Fujian, Baise-Guangxi, Zunyi-Guizhou, Qinglong -Hebei, Luoyang-Henan, Chenzhou -Hunan, Laoshidan -Inner Mongolia, Zhimafang -Jiangsu, Hanzhong -Shaanxi, Zibo -Shandong, Lulinag -Shanxi, Leshan -Sichuan, Yining-Xinjinag, Kunming-Yunnhean, Lishuijiang) DR Congo (Haut-Katanga), Ecuador (Loja), Eswatini (Shiselweni), Finland (Joensuu, Salo, Orivesi), France (aint-Ilpize - Auvergne -Rhône -Alpes, Chalmoux - Bourgoane -Franche- Comté, Prades - Occitanie, Les Baux de-Provence-Provence-Alpes- Côte d'Azur), Germany (Bodenmais-Bavaria, Greece (Phocis, Maroneia-Sapes - East Macedonia and Thrace, Mt. Kerketeas, Naxos), Greenland (Arsuk Fjord , Kujalleg), Honduras (Lepaguare), India (adhya Pradesh), Indonesia (East Java, Gorontalo, Halmahera - North Maluku, Papua, South Kalimantan, West Nusa Tenggara, West Sumatra), Iran (Fars, Kohgiluyeh and Boyer-Ahmad), Iraq (Qala-Diz - Sulaymaniyah), Italy (Cusano Mutri-Campania, Carrodano-Liguria, Val Munari-Veneto), South Korea (), Japan (Kamikita-Aomori , Doi-Ehime , Kamo-Hiroshima, Oshima-Okkaido, Hanamaki-Iwate, Ichikikushikino-Kagoshima, Fukuchiyama-Kyoto, Fukuchiyama -Nagano, Gotoh -Nagasaki, Ōmi -Niigata, Siki-Oita, Bizen -Okayama, Abu-Yamaguchi), Kazakhstan (Ayagoz , Aktogay -Karaganda, Kostanay), Laos (Anouvoung - Xaisomboun), North Macedonia (Berovo , Prisad-Prilep), Madagascar (Anosy , Ihorombe , Vatoavy , **Malawi** (Mwanza), **Malaysia** (Simunjan -Sarawak), **Mexico** (Chínipas -Chihuahua) Mongolia (Manlai , Erdenetsogt), Morocco (zagora) Namibia (Windhoek Rural, Epupa), New Zealand (Kermadec Islands, Thames-Coromandel), Norway (Aneland , Ivesdalsfjellet , Tromsø , Larvik , Modum), Papua New Guinea (Astrolabe, Kainantu, Morobe, Sandaun), Peru (Castilla, Hualgayoc, Huarochirí, Huancabamba), Philippines (Bato - Tabio -Luzon, South Cotabato-Mindanao), Portogalo (Arouca -Aveiro), United Kingdom (Sr. Just-Cornwall, Renfrewshire - Scotland), Czech Republic (Bory - Vysočina), Dominican Republic (Cotuí-Sánchez Ramírez), Romania (Lup ș a -Alba), Russia (Gornyi Altai , Okinsky , Mlass , Kamchatka Krai , Karachay-Cherkessia, Lake Grubependity, Noril'sk, Khibiny Massif, Saranovskaya, Primorsky Krai , Pitkyarantsky , Sverdlovsk Oblast) Serbia (Majdanpek) , Slovakia (Banská Belá , Michalovce , Remetské Hámre , Mojtín), Slovenia (Črni vrh - Dobrova - Polhov Gradec), Solomon (Islands, Guadalcanal), South Africa (Tshwane-Sauteng, Bela-Bela-Limpopo, Madibeng -NW, Gloucester Farm-NC), Spain (NIjar -Andalusia, Villanueva de Bogas - Castile - La Mancha) **Sudan** (North Darfur), **Sweden** (Väster Silvberg / Gällivare

	/ Boliden / Torsby-Dalarna), Switzerland (St Stephan-Berna, Leventina-Ticino, Leuk-Valais), Taiwan (Ruifang -NTC), Tanzania (Longido -Arusha), Turkey (minor deposits, Çanakkale , Serinhisar , Efes- Izmir, Ordu), Hungary (Nagyharsány , Fejér , Nógrád), Uruguay (Minas- Lavelleja), USA (Nome Census-Alaska, CCochise / Greenlee -Arizona, Vallecito / Lakeshre / White Mountains-California, Manassa / Rosita-Colorado, Long Hill-Connecticut), Georgia (Pine Mountain, Litchfield -Maine, Chester-Massachussetts, Missouri, Buckskin Range / Cactus Range-Nevada, Socorro -NM, Alamance / Corundum Hill-NC, Unionville -PA, Edgefield -SC, Utah, Spottswood -Virginia, Slide Creek-WA), Uzbekistan (Okhangaron / Chatkal - Kuraminskii -Tashkent, Vietnam (Cao Loc - L ang S or n, L u c Yên - Yen Bá), Zimbabwe (Mazowe - Central Mashonaland, Shurugwi - Midlands).			
Year of	1801 : first identification of mineral Diaspore.			
discovery	1977: Iridescent-zultanite diaspore: First appearance in a London gemological			
	laboratory.			
History	High-quality zultanite is currently mined in only one place in the world: on the heights of the Anatolian mountains, 1,200 meters above sea level. The mine is located near the Turkish village of Selimiye. Its discovery dates back to 1977. But the actual systematic mining began there in the mid-1980s. Name: The term diaspore was coined in 1801 by Abbot Rene Just Haüy, and referred			
	to specimens of this mineral found in Mramorsk Zavod , Sverdlovskaya Oblast, Urals, Russia. from the Greek δι ασπείρειυ (diaspeíro), which means to disperse, alluding to the usual decrepitation in the flame. The name Zultanite instead, was born in early 2006 , when Murat Akgun , owner of the Turkish mine that produces the most famous gems, suggested finding a more pleasant "marketing" name for the mineral. Diaspore sounded, according to the tycoon, like the name of a mushroom. The first recommended alternative was <i>Ottominites</i> in honor of the Ottoman Empire of Turkey. On the inspiration of this first denomination was born " <i>Sultanite</i> " (which honored the 36 sultans of the Ottoman Empire who ruled Turkey and beyond from 1299 to 1923) which had a more regal connotation, <i>The initial "Z"</i> was introduced to give a touch of originality. <i>Other trade names</i> : Czarite , diasporite , empholite , kayserite , or tanatarite .			
Property attributed	While the common diaspore has been known for over 200 but little known in the jewelry world, Zultanite is a fairly recent discovery. Its optical characteristics are different from those of the common diaspore, therefore also its potential esoteric properties. The perceived supernatural qualities are therefore just as modern. Zultanite is said to help the wearer retrieve lost items, protect businesses from competition and regulation, instill courage in the fearful, guarantee victory against enemies, increase fame and fortune, as well as protect from the evil eye, from witches and jealousy. Zultanite helps stimulate the mind, combat age-related memory loss, relieve stress and aid in weight loss, stimulate the mind for study and memorization, or to help reduce stress. Crystal wearers recommend that to use the stone it should be placed on the forehead, worn around the neck, or placed on the solar plexus. The placement of zultanite interacts directly with the mind chakra. Planet: Month: Zodiac sign: Chakra: Especially those of the eye and throat			
Treatments	There are no known treatments related to this gem.			
Synthetic counterpart	There is no synthetic counterpart, however glass imitations are common that exhibit much harsher color reflections dominated by a single hue.			
It can be confused with	Peridot (due to the strong doubling of the facets through the gem), but normally the peridot has a much more intense color. Iron-rich green sapphire has an absorption spectrum close to diaspore.			
Indicative gemological tests	Visible doubling, strong birefringence, RI, Zultanite has a simple method to distinguish it from more common fakes. The stunning natural tranquil colors are difficult to imitate. The faux stones have hard neon shades.			
Value (2021)	High: 10,000 \$ / ct Medium: 500 \$ / ct Low: \$ 100 / ct 3 carat + 1-3 carats below the carat			
Typical cut	Only a very small amount of gem-quality zultanite can be extracted from tons of ore; furthermore, only 50% of the total extracted zultanite is suitable for cutting and 98% of the rough zultanite stones will be lost during processing. The cut is often decided by the			

	shape of the stones and how much can be saved, also in consideration of the fragility		
	of the material and the directions of flaking. Non-standard forms are often used.		
Famous stones	The Kotlowski cut "Sultans Shield" stone, 96.20 carat, was created for the owner of the		
	mine from Turkey, Zultanite Gems LLC in Fort Lauderdale, Florida. London-based jewelry		
	designer Stephen Webster revealed his creation in an exclusive exhibition in Las Vegas		
	to a select group of people in the industry. It was valued at over \$1 million.		
Record stones	80-carat oval gemstone won the "Cutting Edge" of the AGTA Spectrum Awards in 2008		
	under "Phenomenal Stones" at the time it was the great Zultanite of the world.		