

Dorado Perla

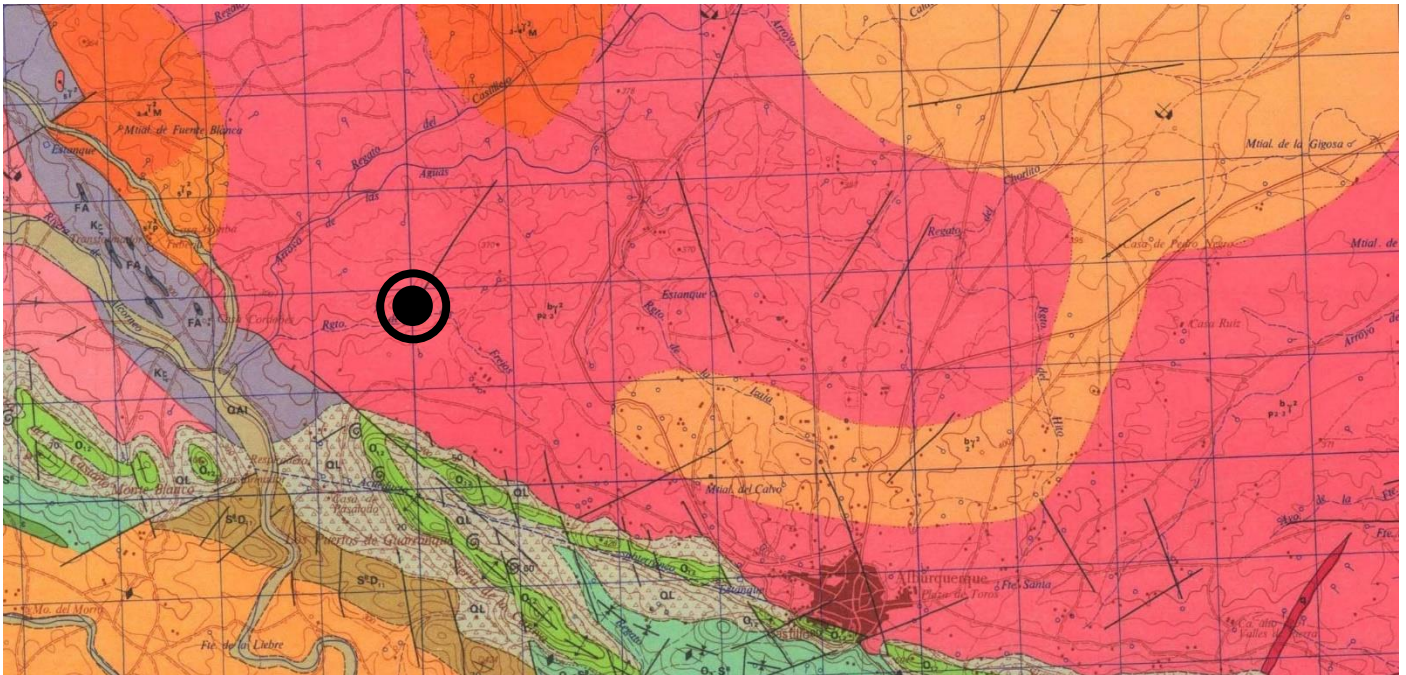


5 cm

Short description: Caramel grayish granite of coarse grain, grainy, compact and irregular fracture.

Commodity (vocabulary)	Lithology (vocabulary)	Typical colour (code list)	Place of origin			
			Country	County / District / Province	Municipality / Community	Place/town / Village
granite	granite	beige	Spain	Badajoz	Alburquerque	Alburquerque

Geological setting



Geology: The Nisa-Albuquerque Batholith is composed by granites of two porphyry micas, gradually changing to granites of two micas of medium to fine grain. Also, although minority, appear muscovitic and aplitic granites. The main facies of commercial interest are the two-mica and cordieritic porphyritic granites. They are rocks of light colors, gray to cream, of very coarse grain, porphyroids, and with good development of feldspar phenocrysts. They can present magmatic differentiations, such as crystal accumulation, quartz-phelpspathic banding, and black mica alignments. The Dorado Perla and Perla varieties belong to this group. In the first type, the exploitation fronts are large, extracting large blocks. On the contrary, the Perla variety is obtained in fronts of short length and with blocks of different sizes, with very small reserves. El Dorado Perla is a two-mica porphyroidal granite. It is a medium to coarse-grained granite, with large phenocrysts of potassium feldspar, of two micas, with biotite predominating. Quartz usually presents more or less strong undulating extinction. The percentages of K-feldspar are highly variable and always higher than the plagioclase content. Almost all have cordierite or the pseudomorphic penmite.

Production: Only one quarry in production.

Geological age: Permian-Carboniferous.

Geological unit: Nisa-Albuquerque Batholith.

Application, use and heritage



Description: Pavement usage (<https://www.stonecontact.com/dorado-perla-granite/>).

Petrography

Description: Hypidiomorphic grainy texture. Coarse grain size. Main components: Quartz, microcline, plagioclase and biotite. Accessory components: Tourmaline, muscovite, apatite, zircon and opaque. Secondary components: Sericite and chlorite.

Source of information: <http://www.igme.es/>

Physical properties

Apparent density (EN 1936) kg/m ³	Open porosity (EN 1936) % vol	Water absorption at atmospheric pressure (EN 13755) % wt	Uniaxial Compressive strength (EN 1926) MPa	Flexural strength under concentrated load (EN 12372) MPa
2620		0,31	55,4	9,41

Real density (EN 1936) kg/m ³	Total porosity (EN 1936) % vol	Water absorption coefficient by capillary (EN 1925) (g/m ² x s ^{0,5})	Flexural strength under constant moment (EN 13161) MPa
		0,442	

Frost resistance (EN 12371)				
Technological Test (Test A)				Identification Test (Test B): Number of cycles completed prior to stone failure
Flexural strength (EN 12372) after freeze-thaw cycling, MPa	Number of cycles	Uniaxial compressive strength (EN 1926) after freeze-thaw cycling, MPa	Number of cycles	

Resistance to ageing by thermal shock (EN 14066)			
Change in dynamic modulus of elasticity (increase: +; decrease: -) %	Change in open porosity (increase: +; decrease: -) %	Change in ultrasound pulse velocity (increase: +; decrease: -) %	Change in flexural strength under conc. load (increase: +; decrease: -) %

Abrasion resistance (EN 14157)			Resistance to salt crystallisation (EN 12370)	Breaking load at dowel hole (EN 13364)	
Method A - Wide Wheel Abrasion Test, mm	Method B - Böhme Abrasion Test, cm ³ / 50cm ²	Method C - Amsler Abrasion Test, mm	Change in mass (increase: +; decrease: -), %	Breaking load, N	Thickness of the test specimens, mm

Slip resistance by means of the pendulum tester (EN 14231 / CEN/TS 16165)			Rupture energy (EN 14158), Joule	Thermal Conductivity (EN 1745), W/m·K
Tested surface finish	Slip Resistance Value — SRV			
	Dry test condition	Wet test condition		

Source of information: Intituto Tecnológico Geominero de España. Granitos de España.

Sources of more information

Type of information	Name of provider	URL
This data sheet	Instituto Geológico y Minero de España (IGME)	http://www.igme.es/
Non-commercial directory	Instituto Geológico y Minero de España (IGME)	http://www.igme.es/
Commercial directory		
Scientific publication		
Other publication		

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