

Sivestre

Gris Alba

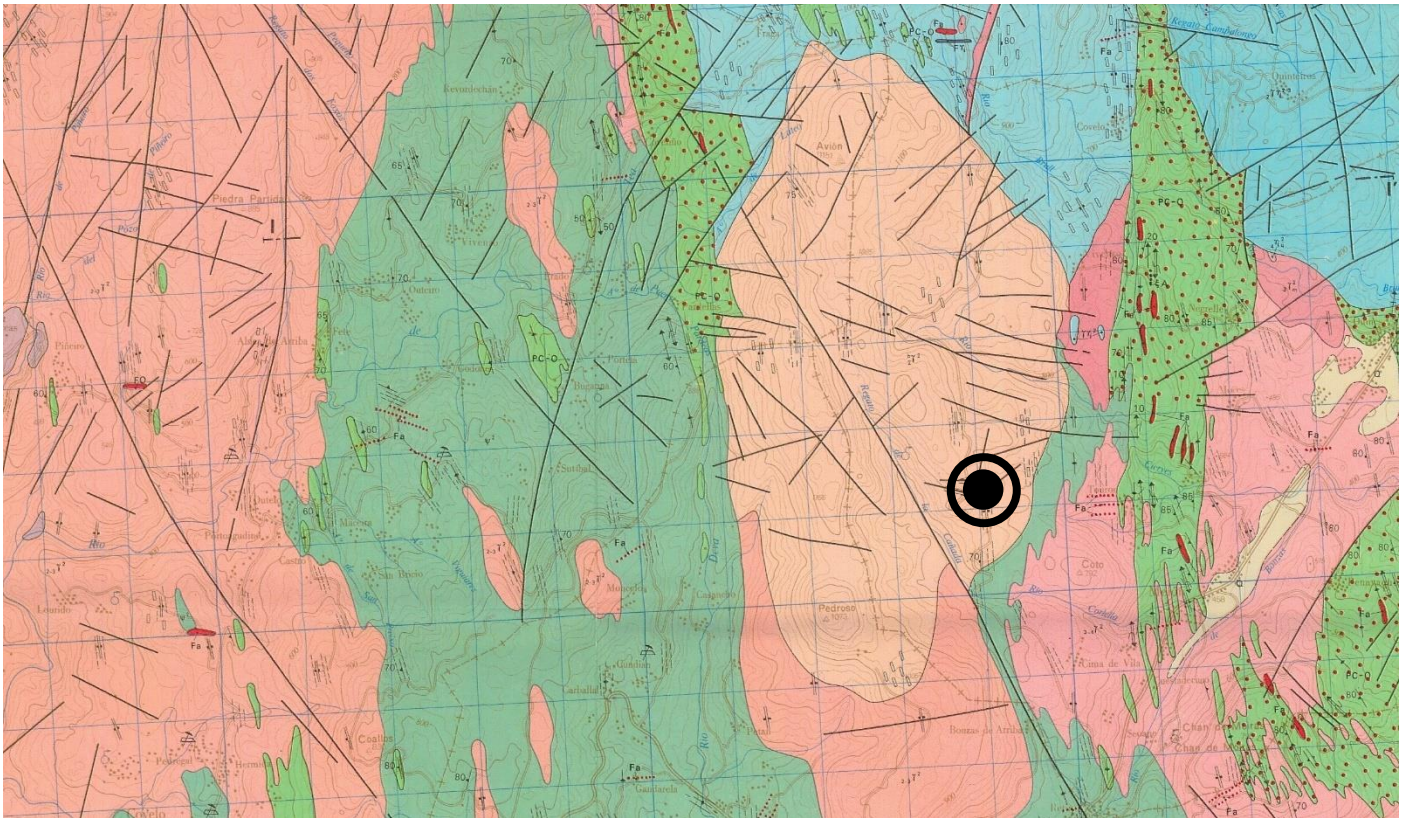
Moreno Alba



Short description: Two-mica granite of a grayish color with a very strong yellow tone, fine grain and a homogeneous background. This granite has some abundance of quartzite, as well as other elements. There are several variations of the Silvestre on the market.

Commodity (vocabulary)	Lithology (vocabulary)	Typical colour (code list)	Place of origin			
			Country	County / District / Province	Municipality / Community	Place/town / Village
granite	granite	grey	Spain	Orense	Melón	Melón

Geological setting



Geology: Faro de Avión massif is slightly elongated in the N-S direction, of approximately 20 km². Texturally quite homogeneous, with two different commercial facies. It is the same granite of two micas and a fine to medium grain size with the same texture, which can be classified with great precision in the quarries according to their tonality into Blanco Alba (gray), Gris Alba (gray-ocher) and Silvestre Moreno (ocher).

Production: Blanco Alba: It is not a white granite, although the name of its registered trademark refers to that color. The polished surface finish, common for indoor countertops and floors, enhances a gray-blue tone. The exterior facades, either solid or in 2-3 cm cladding, both in bush hammered and flamed finishes, are sober and consistent. The floor of the reception of the Álvaro Cunqueiro hospital in Vigo bears his stamp. Alba Gray: Suitable for all uses, it is ideal for flooring. Present in the Gran Vía of Madrid and in a large part of the streets of Vigo and Pontevedra city since 2003. Silvestre Moreno: Silvestre Moreno granite is one of the "wild" granites with less porosity and greater resistance in the stone market. In Galicia it is tremendously appreciated for its color. In Bavaria and French Brittany, former regions with similar granite quarries, it is consumed in large quantities, both in totally rustic and sawn finishes. It is present in the last reforms carried out in the Cathedral of Santiago de Compostela.

Geological age: Visean- Bashkirian (346.7 - 315.2 Ma)

Geological unit: Faro de Avion massif

Application, use and heritage



Description: National library of Spain.

Petrography

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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
2640		0.3	126	13.6

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

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: <https://www.piedra.online/centro-tecnologico-del-granito/catalogo-de-granitos-de-galicia/variedades/silvestre-moreno-melon/>

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		
Commercial directory	Piedra online	https://www.piedra.online/centro-tecnologico-del-granito/catalogo-de-granitos-de-galicia/variedades/silvestre-moreno-melon /
Scientific publication		
Other publication		

Compiled by:	Instituto Geológico y Minero de España (IGME) http://www.igme.es/	 Instituto Geológico y Minero de España
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