

Rosa Sepúlveda

Piedra Rosa Sepúlveda

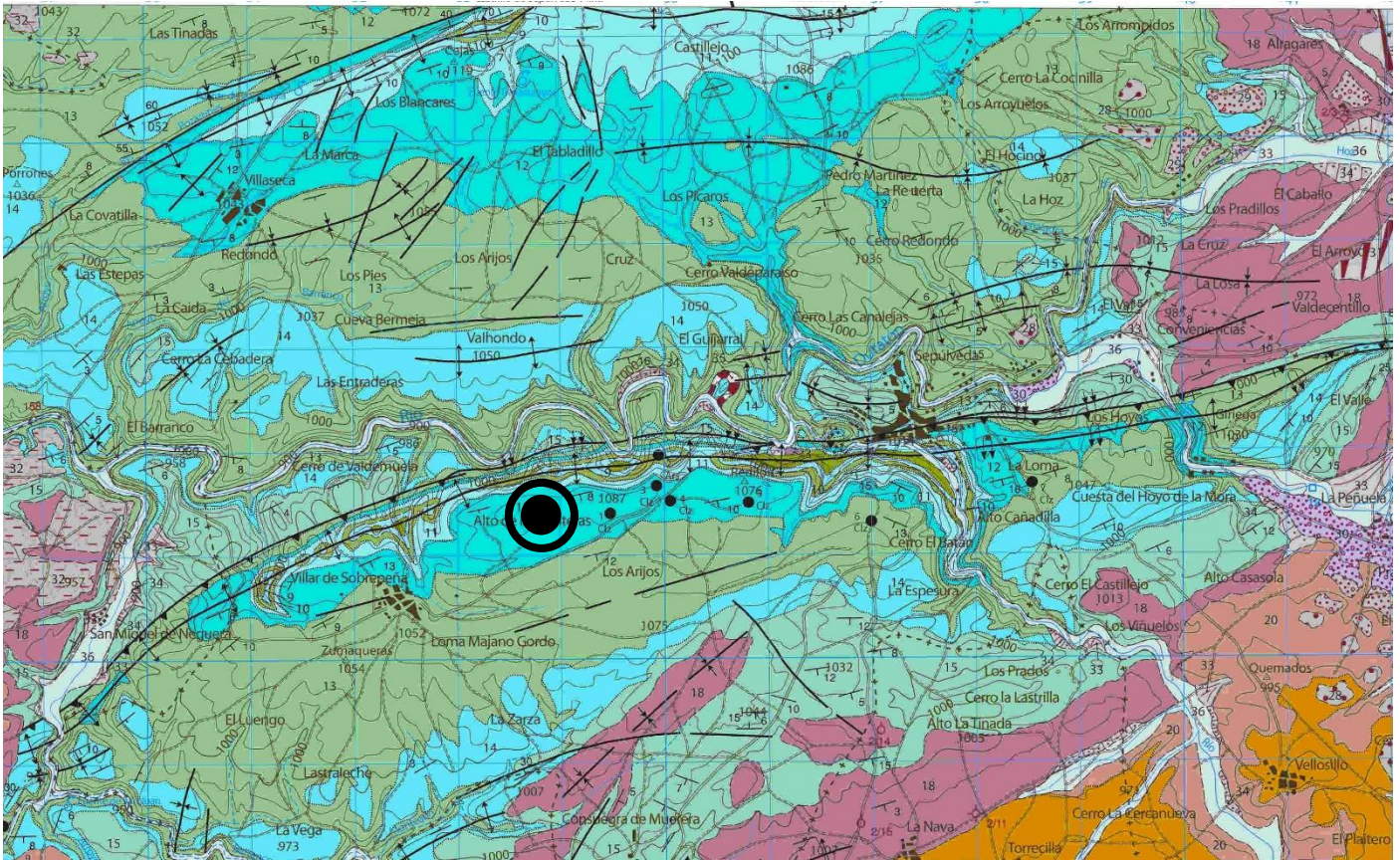
Crema Sepúlveda



Short description: Bioclastic limestones, essentially with grainstone and packstone textures and diverse fossil fragments.

Commodity (vocabulary)	Lithology (vocabulary)	Typical colour (code list)	Place of origin			
			Country	County / District / Province	Municipality / Community	Place/town / Village
bioesparite	limestone	pink	Spain	Segovia	Sepulveda	Villar de Sobrepeña

Geological setting



Geology: Massif of bioclastic limestones, essentially with grainstone and packstone textures and diverse fossil fragments. The porosity, both inter- and intraparticle, is high. The high CaO content reflects the unaltered character of the limestones, with very little presence of terrigenous grains. The MgO content is only noticeable at levels located at the base and roof of the exploited outcrops.

Production: Production is concentrated in 4 quarries that are very close to each other.

Geological age: Coniacian -Santonian.

Geological unit: Limestone, dolomites and dolomitic sandstones of Linares- Ituero. Exploited: Limestone member of Linares.

Application, use and heritage



Description: Private building (MV Stones).



Description: Train station at Segovia.

Petrography

Description: Bioclastic limestones, uniform, compact and with shades of pink and light beige to salmon. It is a packstone (biosparite), which constitutes the intermediate section of the member "Calizas de Linares", belonging to the formation "limestones, dolomites and dolomitic sandstones of Linares - Ituero". It is made up of bioclasts cemented by sparitic calcite. Both clasts and cement contain the iron oxides that provide the pink color. The sedimentation would be of carbonated beach, during the Upper Coniacian - Middle Santonian. Currently, a superficial sub-horizontal front of this rock is being exploited in quarries located in the municipality of Villar de Sobrepeña (Segovia).

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
2060	23.8		6.7	40

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
		31	

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	
12.9	56	15	15	

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
24.5				950	

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		
	71	73		

Source of information: <http://www.marmoleravallisoletana.com/ensayos/ensayosSepulveda.pdf>

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/
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