

Limoges CM10 AW500

Description & Presentation

A white, translucent porcelain suitable for tableware and giftware. Supplied in 20kg bags – AU500
Porcelain CM10 (AW500) is also available in a spray dried powder form (25 kilo bags) with a moisture content of 5 to 6%.
Powder mixing recipes are available.

Recommended Firing

Bisque	Glaze	Glaze
950 to 980° C Orton Cone 08 to 07	1260 to 1280° C Orton Cone 8 to 9	1220 to 1240° C Orton Cone 6 to 7
Oxidizing atmosphere at 150° C per hour	Reducing atmosphere at 150° C per hour	Oxidizing atmosphere at 150° C per hour

Coefficient of Expansion

Fired at 1220° C (Orton Cone 6) in oxidizing atmosphere	58.0 x 10 ⁻⁷ from 20°C to 500°C
Fired at 1280° C (Orton Cone 8) in reducing atmosphere	48.0 x 10 ⁻⁷ from 20°C to 500°C

Chemical Analysis		Shrinkage (fired)			
SiO ₂	57.85%	From mould to dry	3.0%	± 0.2%	
Al ₂ O ₃	26.18%	From mould to biscuit	5.0%	± 0.3%	
TiO ₂	0.15%	From mould to glost	12.2%	± 0.5%	
Fe ₂ O ₃	0.51%				
CaO	1.05%	Particle Size Analysis	Transverse Strength		
MgO	0.73%	+ 50 microns	0.5%	Green	Fired (unglazed)
Na ₂ O	1.34%	+ 25 -50 microns	4.0%		at 1280° C (Orton Cone 9)
K ₂ O	2.72%	+5 -25 microns	43.0%	43 kg / cm ²	in reducing atmosphere
BaO	0.16%	-5 microns	52.5%		980 kg ± 50 kg / cm ²
Other elements	0.20%				
Loss of ignition	9.11%	Water Absorption			
		Biscuit fired at 960° C (Orton Cone 8)		21.5 to 22.5%	
		Fired at 1240° C (Orton Cone 7) in oxidizing atmosphere		0%	
		Fired at 1280° C (Orton Cone 9) in reducing atmosphere		0%	