

Vitreous Tile Clay

HC39

➤ Feature and Benefits

It is a range of very white firing clays for vitreous tile applications such as whole body in porcelain tiles, micronized tiles and top charge and speckle in granite. It is available in cake form and feature good particle size distribution, relatively low iron and titanium and offer good strength characteristics. It is processed and sized under strict internal quality assurance programs. The result is consistent chemistry with uniform particle size distribution for predictable firing performance.

➤ Chemical and Analytical Data

Typical mean values. These do not represent a specification. Mean Percent by Weight on Oxide Basis.

SiO ₂	%	58.85
Al ₂ O ₃	%	27.99
TiO ₂	%	0.33
Fe ₂ O ₃	%	0.83
K ₂ O	%	1.24
Na ₂ O	%	0.01
CaO	%	0.10
MgO	%	0.11
Loss on Ignition	%	10.49
Viscosity [by flow cup]	seconds	27
pH	-	6.8
M.O.R. (Dryed)	kgf/cm ²	45
Firing Shrinkage @1180°C	%	4.4
Water Absorption @1180°C	%	15.7
Fired Color @1180°C	Whiteness	80.5
	L*	93.5
	a*	0.9
	b*	6.7

➤ Particle Size Analysis and Properties

Typical mean values. These do not represent a specification.

Laser PSD	D50µm	7.4
(%)	<10µm	58
	<5µm	43
	<2µm	16
Product Form	Cake	
Moisture Content (%)	28±2	

➤ Packing: 50kg PP bags, 1000kg bags.

Country of Origin: China