



A.B.N. 37 004 377 155

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PRODUCT CODE: 01
ISSUE DATE: June 2013

Technical Data Sheet

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Volclay 200

A selected blend of Premium Western Bentonite and Australian Bentonite

FUNCTIONAL USE:

Provides green compression strengths so that accurate, dense stable moulds can be produced consistently from silica sand.

High hot compression strength ensures mould stability and casting accuracy during and after pouring. High durability characteristics

General purpose filler and extender for use when mild thixotropic properties,

PURITY:

Hydrous aluminium silicate comprised principally of the clay mineral montmorillonite, Montmorillonite content 94% minimum.

CHEMICAL COMPOSITION:

Typical Analysis (moisture free)

Oxide	wt. % norm	Oxide	wt. % norm
SiO ₂	63.02%	MgO	2.67%
Al ₂ O ₃	21.08%	Na ₂ O	2.57%
Fe ₂ O ₃	3.25%	CaO	0.65%
FeO	0.35%	H ₂ O	5.64%
	Trace Elements		0.72%



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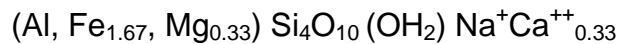
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Volclay 200

CHEMICAL FORMULA:

A tri-layer expanding mineral structure of approximately:



Typical Physical Properties

Bulk Density (tonnes / m ³)	Approx 0.9
Moisture	Max 13%
pH (6.25% solids)	8.5 to 10.5
CEC (meq / 100g)	> 80
Dry Particle size	Max 65% passing 0.076mm
Free Swell	20

SAND PROPERTIES:

FOUNDRY BOND TEST – 40% CONSTANT COMPACTABILITY METHOD

Silica sand 93 parts by weight

Volclay 200 7 parts by weight

A.F.S. Green Compression > 18.6 psi

A.F.S. Dry Compression > 84 psi

PACKAGING:

Multi-wall paper bags 25 kg and Bulk Bags