



Sieve Test Results:

	ASTM Sieve No												Pan	AFS No
	6	12	20	30	40	50	70	100	140	200	270			
Erzhong Current Material	0	0	0.187	3.462	21.557	42.062	27.473	5.125	0.118	0.016	0	0	0	41.5
Volclay Material Tested Inhouse	0	0	0.06	3.049	19.241	30.862	27.019	13.912	4.95	0.871	0.036	0	0	48.2
Volclay Material Tested Externally	0	0	0.11	3.12	20.21	34.02	28.05	12.17	1.93	0.06	0	0	0	44.9

Chemical Composition:

	Cr2O3	SiO2	CaO	FeO	LOI	Moisture
Volclay Material Tested Externally	48.23%	0.92%	0.43%	N/A	-0.80%	0.06%

Tensile Test Results:

Tests done with 1.5% DYF-1 Alkaline Phenolic Resin, 25% DYG-4 Alkaline Phenolic Hardener at 24oC and 63% Humidity
Results are in MPa after 24hrs

	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Average
Erzhong Current Material	0.643	0.999	0.854	1.024	1.055	0.665	0.873
Volclay Material	1.222	1.352	1.451	1.086	0.922		1.207 (38% Increase in Tensile Strength compared to their existing material)

