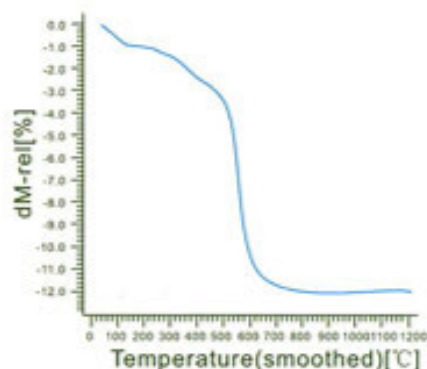


SD-2

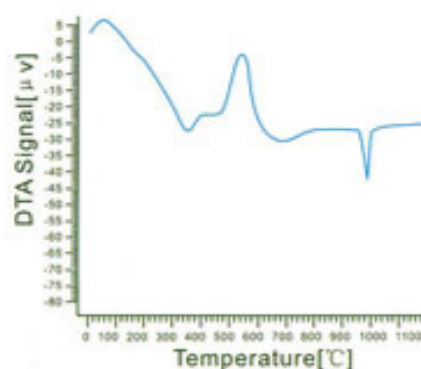
Chemical Analysis

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	CaO	MgO	K ₂ O	Na ₂ O	L.O.I
54.85	31.00	0.81	0.19	0.06	0.17	1.12	0.38	11.39

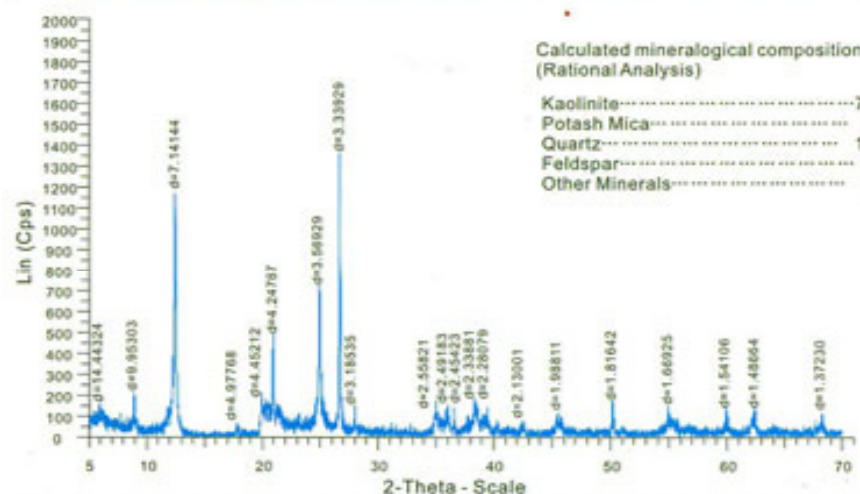
TG



DTA

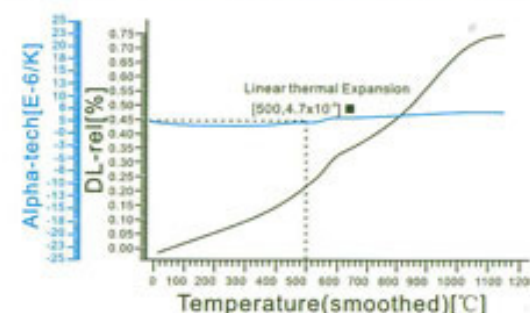


X-RAY



File: 01W2006090.raw - Type: 2Th/Th locked - Start: 5.000 ° - End: 70.000 ° - Step: 0.010 ° - Step time: 0.2 s - Generator kV: 40 kV - Generator mA: 40 mA

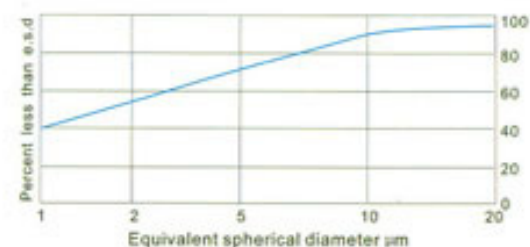
Thermal Expansion



Refractoriness

(PCE)Orton Cone	33-34
Temperature(°C)	1745

Particle Size Distribution



Residue	%
325mesh	1.5
120mesh	0.5

Major Physical Properties

Whiteness		Water Absorption		Viscosity	M.O.R Dried@110°C(Kgf/cm ²)
1180°C	83.0	16.0		12 dPa.s★	58
1200°C	81.5	15.7		PH Value	Linear Shrinkage(1200°C)
				5.0	8.5
Defloculant Dem-and ♦ (%w/w)		Casting Rate (mm ² /min)		Plasticity Properties(● Pff.)	
0.4**		0.15		%Moisture content P16	45.5
				BW Index▲	1693

Notes

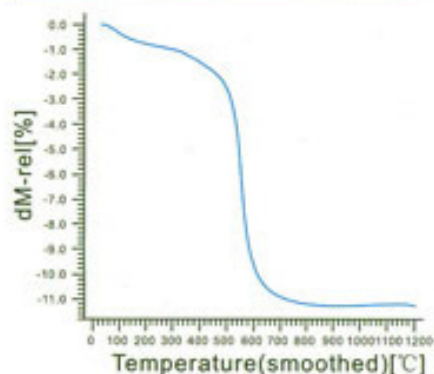
- ◆ Slip at 60% solid content with fixed addition (L121). Na₂CO₃ except**. L121 = 3:1 Na₂SiO₃.
- Pff.: Pfefferkorn, the testing method for measuring & comparing plasticity.
- ▲ BW: Bowmaker, who found the method for comparing Pfefferkorn plasticity measuring of clays.
- : Pre-fired to 1200°C.
- ★: Testing method for comparison: 1.200g clay is mixed with 100g water and 0.6g STPP, ball-milled for 10 minutes. 2. Milled slip passes 20 mesh sieve. 3. Measure the viscosity by #4 Ford Cup or VT-04 spindle viscometer.

SD-188

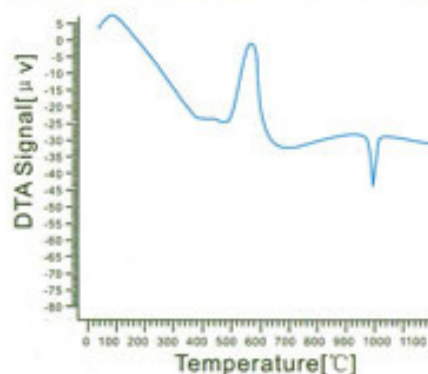
Chemical Analysis

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	CaO	MgO	K ₂ O	Na ₂ O	L.O.I
57.10	29.43	0.35	0.15	0.09	0.26	1.04	0.36	11.20

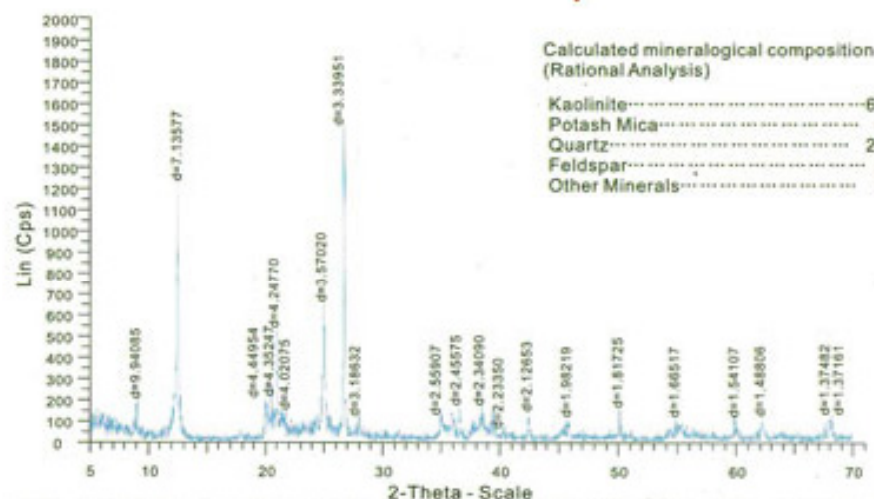
TG



DTA

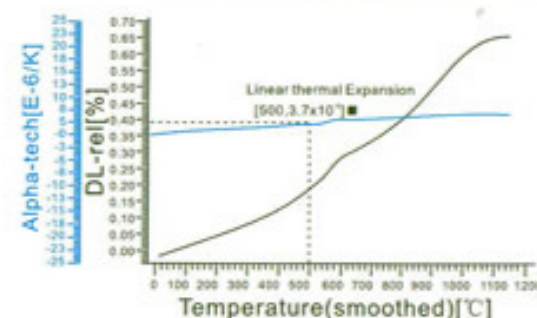


X-RAY



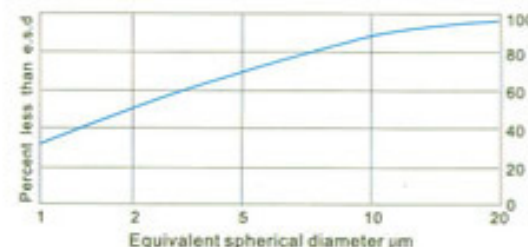
File: 01W2008093.raw - Type: 2Th/Th locked - Start: 5.000 ° - End: 70.000 ° - Step: 0.010 ° - Step time: 0.2 s - Generator kV: 40 kV - Generator mA: 40 mA

Thermal Expansion



Refractoriness	
(PCE)Orton Cone	33
Temperature(°C)	1730

Particle Size Distribution



Residue	%
325mesh	1.3
120mesh	Trace

Major Physical Properties

	Whiteness	Water Absorption	Viscosity	M.O.R Dried@105°C(Kgf/cm ²)
1180°C	87.5	20.2	15 dPa.s★	42
1200°C	85.0	14.0	PH Value	Linear Shrinkage(1200°C)
			6.1	8.1

Plasticity Properties (● Pff.)

%Moisture content P16	44.8
BW Index▲	1495

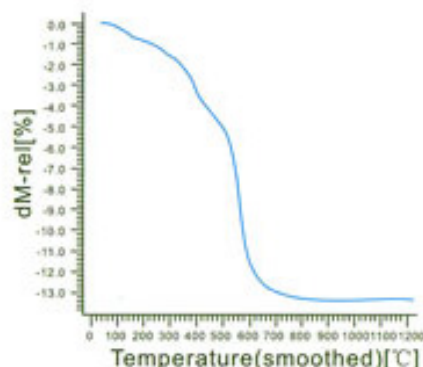
Notes

- Pff.: Pfefferkorn, the testing method for measuring & comparing plasticity.
- ▲BW: Bowmaker, who found the method for comparing Pfefferkorn plasticity measuring of clays.
- : Pre-fired to 1200°C.
- ★: Testing method for comparison:
1. 200g clay is mixed with 100g water and 0.6g STPP, ball-milled for 10 minutes.
2. Milled slip passes 20 mesh sieve.
3. Measure the viscosity by #4 Ford Cup or VT-04 spindle viscometer.

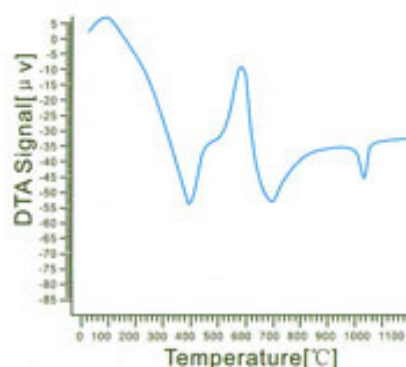
Chemical Analysis

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	CaO	MgO	K ₂ O	Na ₂ O	L.O.I
53.26	30.60	0.95	0.40	0.19	0.33	1.09	0.29	12.87

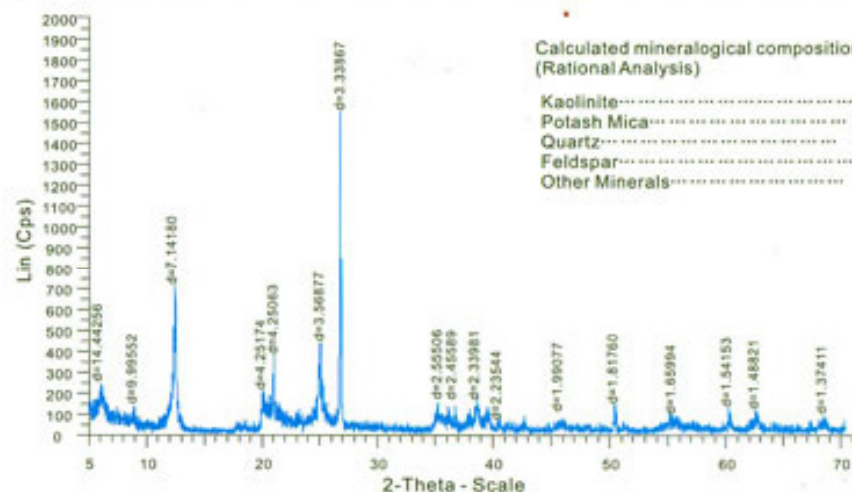
TG



DTA

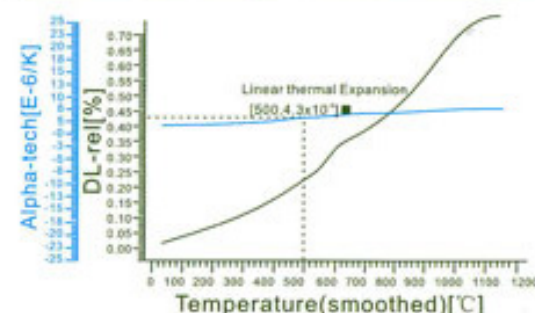


X-RAY



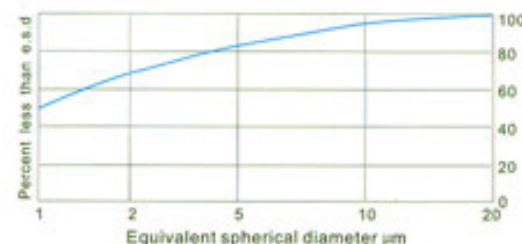
File: 01W2006089.raw - Type: 2Th/Th locked - Start: 5.000 7 - End: 70.000 7 - Step: 0.010 7 - Step time: 0.2 s - Generator kV: 40 kV - Generator mA: 40 mA

Thermal Expansion



Refractoriness	
(PCE)Orton Cone	33-34
Temperature(°C)	1745

Particle Size Distribution



Residue	%
325mesh	1.0
120mesh	Trace

Major Physical Properties

	Whiteness	Water Absorption	Viscosity	M.O.R Dried@105°C(Kgf/cm²)
1180°C	73.0	12.1	10 dPa.s★	56
1200°C	71.0	9.5	PH Value	Linear Shrinkage(1200°C)
			5.1	9.5
Defloculant Dem-and ♦ (%w/w)		Casting Rate (mm²/min)	Plasticity Properties(● Pff.)	
0.15/0.25**		0.2	%Moisture content P16	44.6
			BW Index▲	1568

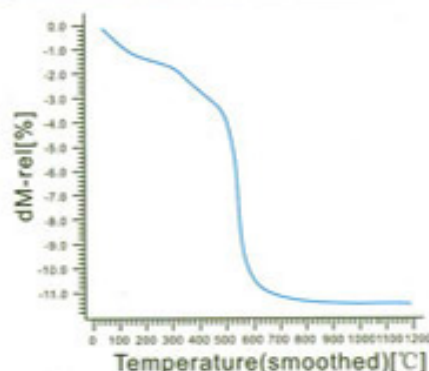
Notes

- ◆ Slip at 60% solid content with fixed addition (L121). Na₂CO₃ except**. L121 = 3:1 Na₂SiO₃.
- Pff.: Pfefferkorn, the testing method for measuring & comparing plasticity.
- ▲ BW: Bowmaker, who found the method for comparing Pfefferkorn plasticity measuring of clays.
- Pre-fired to 1200°C.
- ★ Testing method for comparison:
1. 200g clay is mixed with 100g water and 0.6g STPP, ball-milled for 10 minutes.
2. Milled slip passes 20 mesh sieve.
3. Measure the viscosity by #4 Ford Cup or VT-04 spindle viscometer.

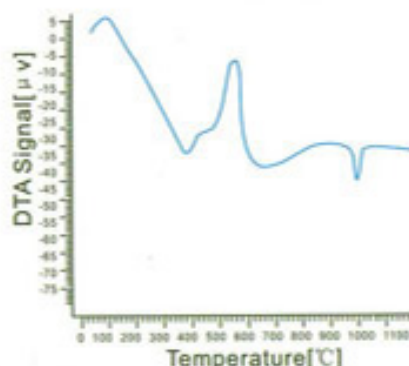
Chemical Analysis

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	CaO	MgO	K ₂ O	Na ₂ O	L.O.I
54.57	30.31	0.57	0.19	0.06	0.17	1.11	0.34	12.54

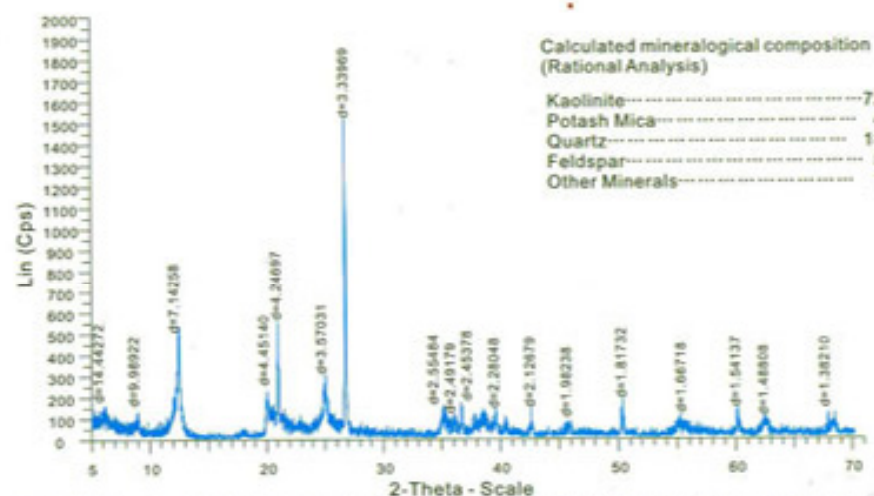
TG



DTA

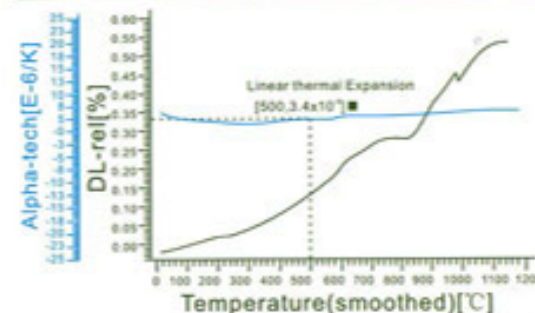


X-RAY



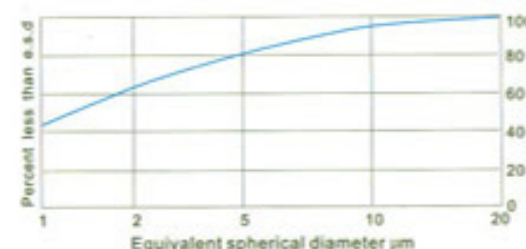
File: 01W2008094.raw - Type: 2Th/Th locked - Start: 5.000 7 - End: 70.000 7 - Step: 0.010 7 - Step time: 9.2 s - Generator kV: 40 kV - Generator mA: 40 mA

Thermal Expansion



Refractoriness	
(PCE)Orton Cone	33-34
Temperature(°C)	1740

Particle Size Distribution



Residue	%
325mesh	1.0
120mesh	Trace

Major Physical Properties

	Whiteness	Water Absorption	Viscosity	M.O.R Dried@105°C(Kgf/cm ²)
1180°C	81.0	18.2	10 dPa.s★	50
1200°C	79.0	15.0	PH Value	Linear Shrinkage(1200°C)
			5.0	11.2
Defloculant Dem and ♦ (%w/w)		Casting Rate (mm ² /min)	Plasticity Properties(● Pff.)	
0.2/0.77**		0.2	%Moisture content P16	44
			BW Index▲	1430

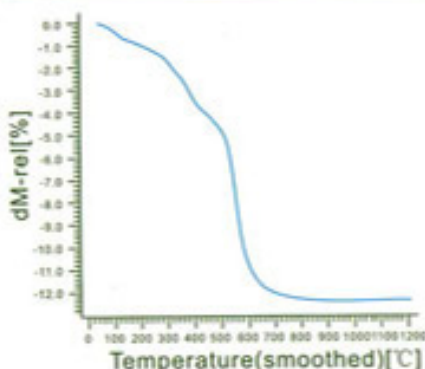
Notes

- ★ Slip at 60% solid content with fixed addition (L121). Na₂CO₃ except**. L121 = 3:1 Na₂SiO₃.
- Pff.: Pfefferkorn, the testing method for measuring & comparing plasticity.
- ▲ BW: Bowmaker, who found the method for comparing Pfefferkorn plasticity measuring of clays.
- Pre-fired to 1200°C.
- ★ Testing method for comparison:
1. 200g clay is mixed with 100g water and 0.6g STPP, ball-milled for 10 minutes.
2. Milled slip passes 20 mesh sieve.
3. Measure the viscosity by #4 Ford Cup or VT-04 spindle viscometer.

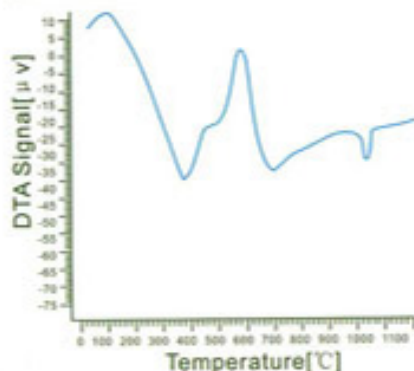
Chemical Analysis

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	CaO	MgO	K ₂ O	Na ₂ O	L.O.I
56.87	28.14	1.04	0.41	0.08	0.18	1.02	0.10	11.91

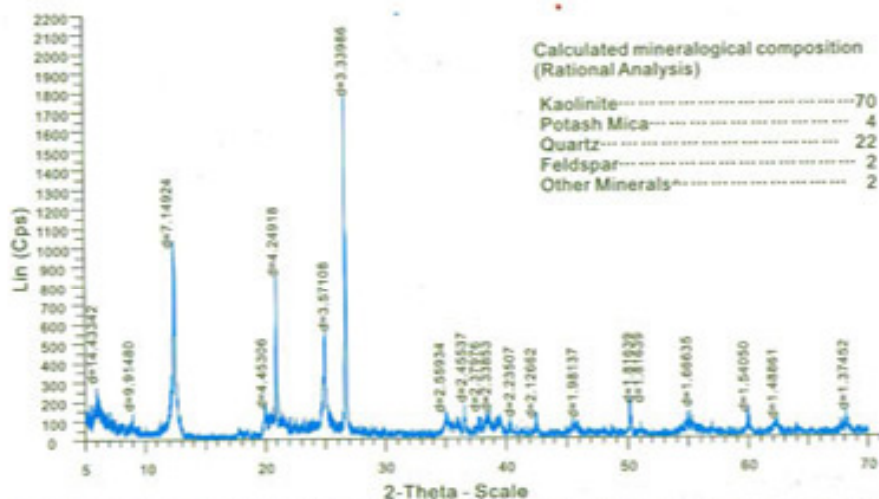
TG



DTA

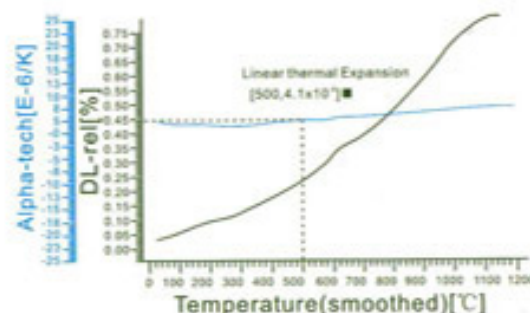


X-RAY



File: 01W2008092.raw - Type: 2Th/Th locked - Start: 5.000 7 - End: 70.000 7 - Step: 0.010 7 - Step time: 0.2 s - Generator KV: 40 kV - Generator mA: 40 mA

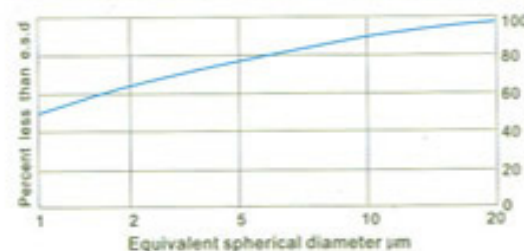
Thermal Expansion



Refractoriness

(PCE)Orton Cone	32-33
Temperature(°C)	1720

Particle Size Distribution



Residue	%
325mesh	1.0
120mesh	Trace

Major Physical Properties

	Whiteness	Water Absorption	Viscosity	M.O.R Dried@105°C(Kgf/cm ²)
1180°C	72.0	16.1	10 dPa.s★	65
1200°C	70.0	10.5	PH Value	Linear Shrinkage(1200°C)
			5.7	10.5

Plasticity Properties (● Pff.)

%Moisture content P16	45.7
BW Index▲	1949

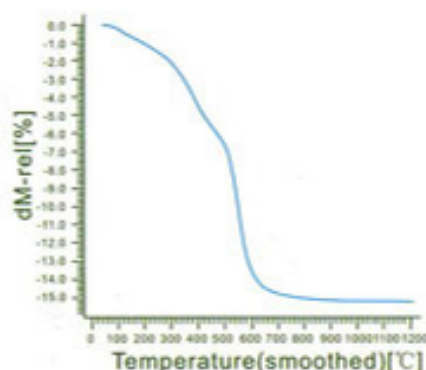
Notes

- Pff.: Pfefferkorn, the testing method for measuring & comparing plasticity.
- ▲ BW: Bowmaker, who found the method for comparing Pfefferkorn plasticity measuring of clays.
- Pre-fired to 1200°C.
- ★ Testing method for comparison:
1. 200g clay is mixed with 100g water and 0.6g STPP, ball-milled for 10 minutes.
2. Milled slip passes 20 mesh sieve.
3. Measure the viscosity by #4 Ford Cup or VT-04 spindle viscometer.

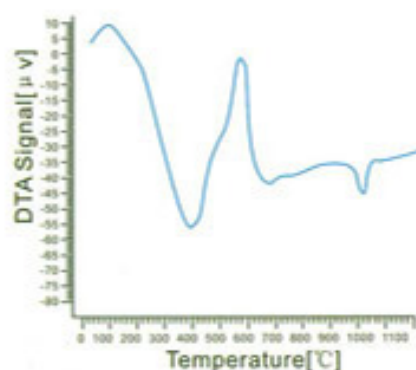
Chemical Analysis

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	CaO	MgO	K ₂ O	Na ₂ O	L.O.I
53.29	28.50	1.29	0.67	0.10	0.28	0.98	0.10	14.60

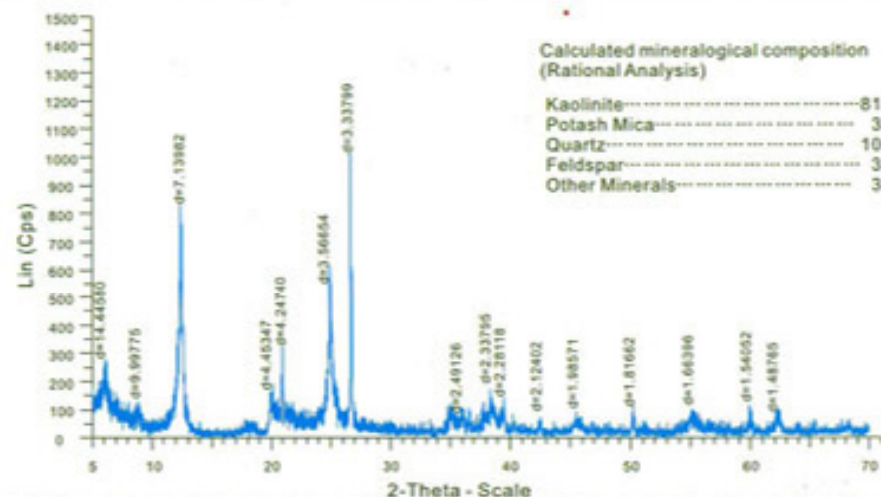
TG



DTA

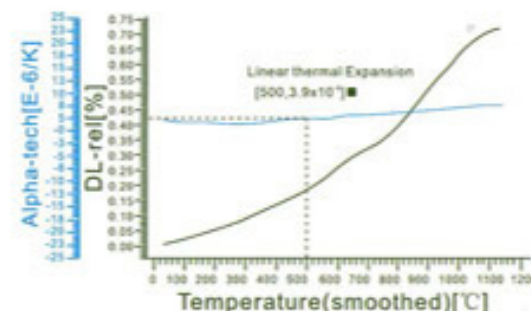


X-RAY



File: 01W2008095.raw - Type: 2Th/Th locked - Start: 5.000 ° - End: 70.000 ° - Step: 0.010 ° - Step time: 0.2 s - Generator kV: 40 kV - Generator mA: 40 mA

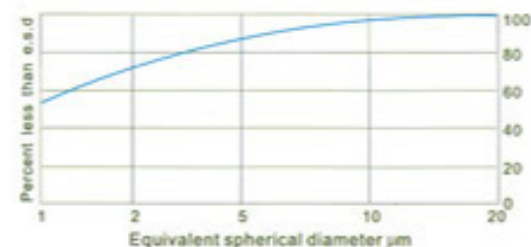
Thermal Expansion



Refractoriness

(PCE)Orton Cone	32-33
Temperature(°C)	1720

Particle Size Distribution



Residue	%
325mesh	1.0
120mesh	Trace

Major Physical Properties

	Whiteness	Water Absorption	Viscosity	M.O.R Dried@105°C(Kgf/cm ²)
1180°C	64.0	11.7	15 dPa.s★	80
1200°C	60.0	10.9	PH Value	Linear Shrinkage(1200°C)
			5.6	13.5

Plasticity Properties(● Pff.)

%Moisture content P16	58
BW Index▲	2763

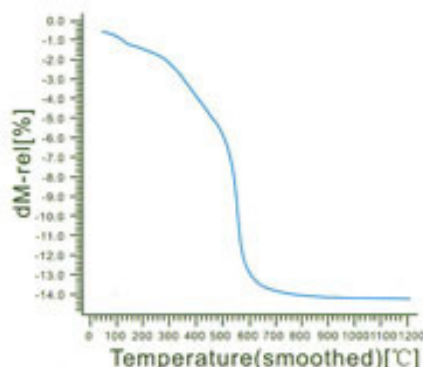
Notes

- Pff.: Pfefferkorn, the testing method for measuring & comparing plasticity.
- ▲ BW: Bowmaker, who found the method for comparing Pfefferkorn plasticity measuring of clays.
- Pre-fired to 1200°C.
- ★ Testing method for comparison:
1. 200g clay is mixed with 100g water and 0.6g STPP, ball-milled for 10 minutes.
2. Milled slip passes 20 mesh sieve.
3. Measure the viscosity by #4 Ford Cup or VT-04 spindle viscometer.

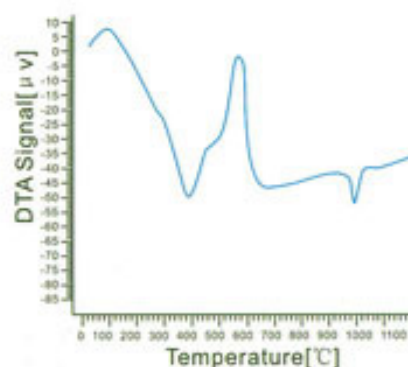
Chemical Analysis

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	CaO	MgO	K ₂ O	Na ₂ O	L.O.I
50.94	32.23	1.19	0.56	0.07	0.10	1.04	0.21	13.45

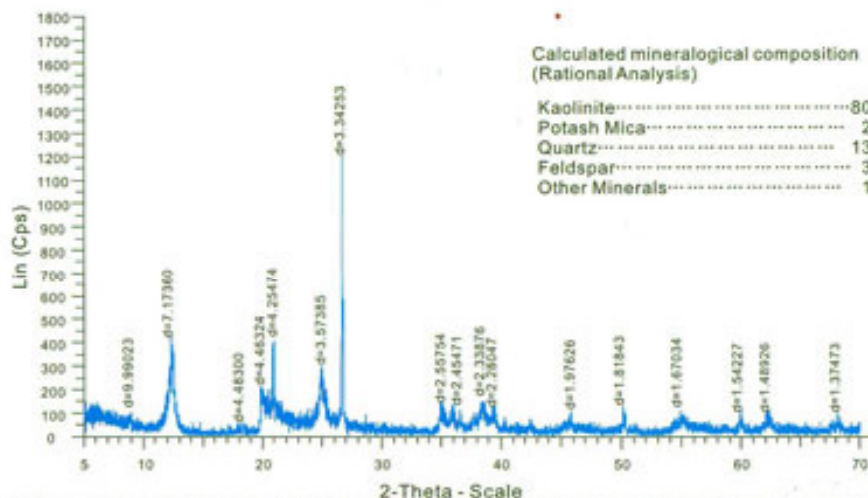
TG



DTA

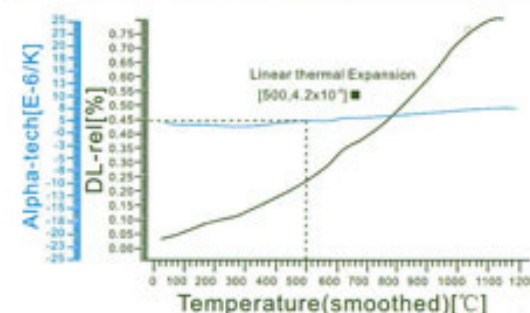


X-RAY



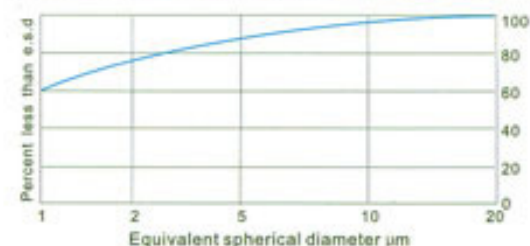
File: 01W2008096.raw - Type: 2Th/Th locked - Start: 5.000 7 - End: 70.300 7 - Step: 0.010 7 - Step time: 0.2 s - Generator KV: 40 kV - Generator mA: 40 mA

Thermal Expansion



Refractoriness	
(PCE)Orton Cone	34-35
Temperature(°C)	1775

Particle Size Distribution



Residue	%
325mesh	1.0
120mesh	0.3

Major Physical Properties

Whiteness		Water Absorption		Viscosity	M.O.R Dried@105°C(Kgf/cm²)
1180°C	73.0	14.6		20 dPa.s★	50
1200°C	72.0	11.5		PH Value	Linear Shrinkage(1200°C)
				5.7	12.1

Plasticity Properties(● Pff.)

%Moisture content P16	48.4
BW Index▲	2221

Notes

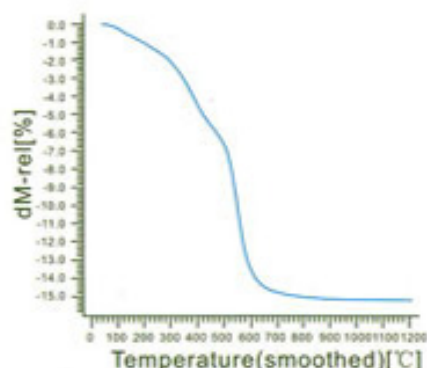
- Pff. : Pfefferkorn, the testing method for measuring & comparing plasticity.
 - ▲ BW: Bowmaker, who found the method for comparing Pfefferkorn plasticity measuring of clays.
 - Pre-fired to 1200°C.
 - ★ Testing method for comparison:
- 200g clay is mixed with 100g water and 0.6g STPP, ball-milled for 10 minutes.
 - Milled slip passes 20 mesh sieve.
 - Measure the viscosity by #4 Ford Cup or VT-04 spindle viscometer.

SR-15

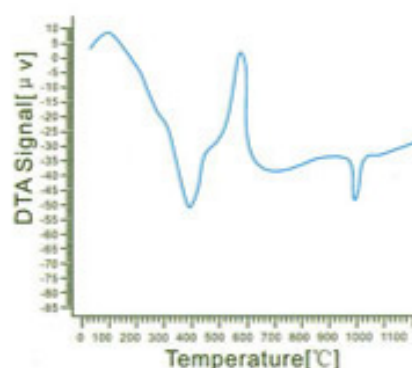
Chemical Analysis

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	CaO	MgO	K ₂ O	Na ₂ O	L.O.I
48.52	34.15	1.21	0.58	0.09	0.15	0.83	0.08	14.30

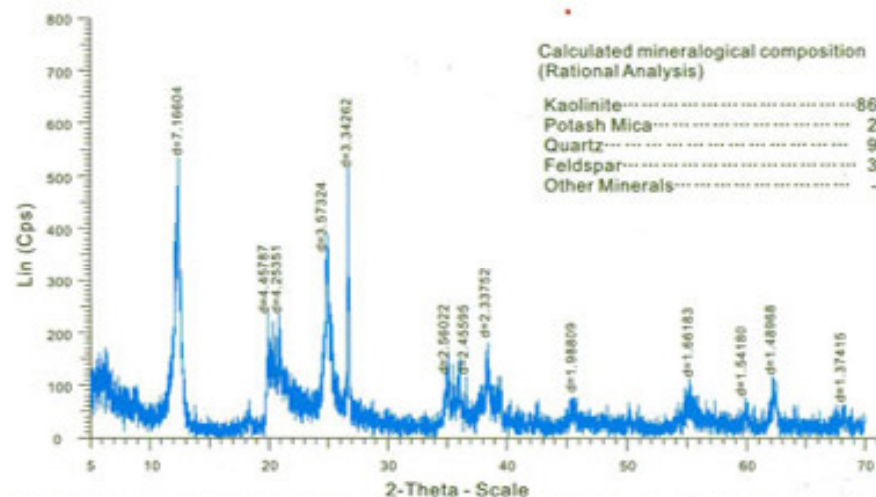
TG



DTA

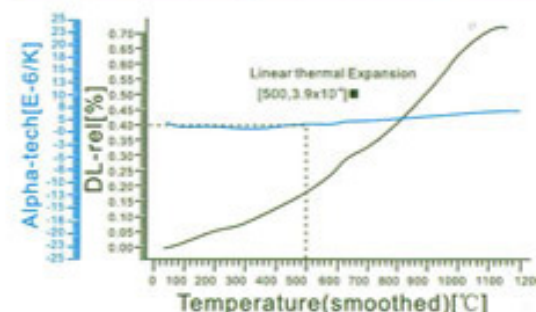


X-RAY



File: 01W2008091.raw - Type: 2Th/Th locked - Start: 5.000 7 - End: 70.000 7 - Step: 0.010 7 - Step time: 0.2 s - Generator KV: 40 KV - Generator mA: 40 mA

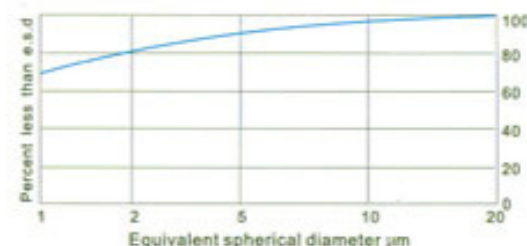
Thermal Expansion



Refractoriness

(PCE)Orton Cone	35-36
Temperature(°C)	1790

Particle Size Distribution



Residue	%
325mesh	1.0
120mesh	Trace

Major Physical Properties

	Whiteness	Water Absorption	Viscosity	M.O.R Dried@105°C(Kgf/cm ²)
1180°C	70.0	10.8	25 dPa.s★	60
1200°C	68.0	4.3	PH Value	Linear Shrinkage(1200°C)
			5.8	11.7

Plasticity Properties(● Pff.)	
%Moisture content P16	47.4
BW Index▲	2463

Notes

- Pff.: Pfefferkorn, the testing method for measuring & comparing plasticity.
- ▲ BW: Bowmaker, who found the method for comparing Pfefferkorn plasticity measuring of clays.
- Pre-fired to 1200°C.
- ★ Testing method for comparison:
 1. 200g clay is mixed with 100g water and 0.6g STPP, ball-milled for 10 minutes.
 2. Milled slip passes 20 mesh sieve.
 3. Measure the viscosity by #4 Ford Cup or VT-04 spindle viscometer.