



SPECIFICATIONS FOR RAW MATERIALS

ISSUE : 05
SECTION : 20.0
REV : 00
DATE : JUN 2009
PAGE : 1 OF 1

CHAIBASA CLAY

1. General : This Specification governs the requirements of Chaibasa Clay.
2. Application : To serve as one of the constituents in the manufacture of porcelain body mass and glaze.
3. Particle Size : Particle Size
above 10 μm : 15 \pm 5.0 %
4. Residue over 45 μm sieve : Maximum 0.5 %
5. % Water absorption : 10 \pm 6 %
6. Green Strength (kgs/Cm²): Min. 30.0
Max. 75.0
7. Freedom from Defects : The clay shall be free from foreign materials such as sand and red ochere.
8. Chemical Composition : a) SiO₂ 47.0 \pm 2.0 %
b) Al₂O₃ 35.0 \pm 2.0 %
c) Fe₂O₃ 3.0 % max
d) L.O.I..... 14.0 \pm 1.0 %

PREPARED BY

P.V. Satyasandha

P.V. SATYASANDHA

SR.ENGINEER / CERAMIC LABORATORY

APPROVED BY

S.K. Biswas

S.K. BISWAS

HEAD / SH & CERAMIC LABORATORY



SPECIFICATIONS FOR RAW MATERIALS

ISSUE	: 05
SECTION	: 18.0
REV	: 00
DATE	: JUN 2009
PAGE	: 1 OF 1

WASHED THAN CLAY

1. General : This Specification governs the requirements of Washed Than Clay.
2. Application : To serve as one of the constituents in the manufacture of porcelain body mass.
3. Particle Size : Particle Size
above 10 μm : 22 \pm 6 %
4. Residue over 45 μm sieve : Maximum 5.0 %
5. % Water absorption : 9.0 \pm 4.0 %
6. Green Strength (kgs/Cm²) : Minimum 55.0
7. Freedom from Defects : The clay shall be free from foreign materials such as sand and red ochere.
8. Chemical Composition :
 - a) SiO₂ 60.0 \pm 2.5 %
 - b) Al₂O₃ 25.0 \pm 2.5 %
 - c) Fe₂O₃ Less than 1.5 %
 - d) L.O.I..... 12.0 \pm 2.5 %

PREPARED BY

P.V. Satyasandha
P.V.SATYASANDHA

SR.ENGINEER / CERAMIC LABORATORY

APPROVED BY

S.K. Biswas
S.K.BISWAS

HEAD / SH & CERAMIC LABORATORY

SPECIFICATIONS FOR RAW MATERIALS

ISSUE : 05
SECTION : 43.0
REV : 00
DATE : JUN 2009
PAGE : 1 OF 1

ENGLISH HYMODE PKH BALL CLAY

1. General : This Specification governs the requirements of English Hymod Blue PKH Ball Clay.
2. Application : To serve as one of the constituents in the Manufacture of Porcelain body mass.
3. Particle Size : Particle Size above 10 μm : less than 5 %
4. Residue over 45 μm sieve : Maximum 0.5 %
5. % Water absorption : Nil
6. Green Strength (kgs/Cm²): Minimum 50.0
7. Freedom from Defects : The clay shall be free from foreign materials such as sand and red ochere.
8. Chemical Composition :
 - a) SiO₂ 52.5 \pm 2.5 %
 - b) Al₂O₃ 30.5 \pm 2.5 %
 - c) Fe₂O₃.. Less than 2.0 %
 - d) L.O.I.....less than 12 %

PREPARED BY

P.V. Ravishankar
K.S RAVISHANKAR

SR ENGINEER / CERAMIC LABORATORY

APPROVED BY

S.K. Biswas
S.K. BISWAS

HEAD / SH & CERAMIC LABORATORY

SPECIFICATIONS FOR RAW MATERIALS

ISSUE : 05
SECTION : 32.0
REV : 00
DATE : JUN 2009
PAGE : 1 OF 1

RAW QUARTZ POWDER FOR ASSEMBLY

1. General : This Specification governs the Requirements of Raw Quartz powder for Assembly.
2. Application : To serve as one of the constituents in the preparation of Cement mixture.
3. Particle Size :
 1. Residue over 1000 μm sieve shall be less than 3.0 %
 2. Below 600 μm sieve shall be less than 25 %
4. Freedom from Defects : Shall be free from foreign materials. Free Iron in powder shall not exceed 0.01%.

PREPARED BY

P.V. Satvasandha

P.V.SATVASANDHA

SRENGINEER / CERAMIC LABORATORY

APPROVED BY

S.K. Biswas

S.K.BISWAS

HEAD / SH & CERAMIC LABORATORY

CONTROLLED
COPY
02



SPECIFICATIONS FOR RAW MATERIALS

ISSUE : 05
SECTION : 33.0
REV : 00
DATE : JUN 2009
PAGE : 1 OF 1

SANDING - INSULATOR GROG

1. General : This Specification governs the requirements of Sanding Insulator Grog.
2. Application : To serve as gripping material for the assembly of metal parts on Insulator.
3. Particle Size :
 1. Residue over 1415 μm sieve shall be < 1.0 %
 2. Residue over 850 μm sieve shall be > 80 %
4. Freedom from Defects : Shall be free from foreign materials. Free Iron in powder should be less than or equal to 0.003%.

PREPARED BY

P.V. Satyasandha
P.V.SATYASANDHA

SR.ENGINEER / CERAMIC LABORATORY

APPROVED BY

S.K. Biswas
S.K.BISWAS

HEAD / SH & CERAMIC LABORATORY

CONTROLLED
COPY
02



SPECIFICATIONS FOR RAW MATERIALS

ISSUE : 05
SECTION : 45.0
REV : 00
DATE : JUN 2009
PAGE : 1 OF 1

BARIUM CARBONATE

- 1. General : This Specification governs the requirements of Barium Carbonate.
- 2. Application : To serve as one of the constituents in the Manufacture of Porcelain body mass/Glaze.
- 3. Form : Should be supplied in powder form.
- 4. Particle Size : Residue over 150 μ m Sieve : Nil
(Data for information only)
- 5. Moisture Content : Nil
- 5. Chemical Composition : a) BaCO₃ >98%
b) BaO >75 %

PREPARED BY

K.S. Ravishankar
K.S RAVISHANKAR

SRENGINEER / CERAMIC LABORATORY

APPROVED BY

S.K. Biswas
S.K. BISWAS

HEAD / SH & CERAMIC LABORATORY