

SPECIFICATIONS FOR RAW MATERIALS

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CARBOXY METHYL CELLULOSE (CMC)

1. General

: This Specification governs the requirement of carboxy methyl cellulose.

2. Application

: To serve as binder in Brown glaze before glazing.

3. Visual Appearance

: Should be free from nodules.

4. Physical Properties

: % Moisture content : 11 ± 2

Viscosity (poise) : 9 to 12

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IRON OXIDE

1. General : This Specification governs the requirements of Iron Oxide.
2. Application : To serve as one of the constituents in the Ceramic glaze.
3. Form : It should be supplied in powder form and should pass through 150 μ m sieve. (Data for information only)
4. Chemical Composition :
 - a) Fe_2O_3 More than 95 %
 - b) L.O.I..... Not more than 2.0 %
5. Moisture Content : Nil

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BAGESHPUR CLAY

1. General : This Specification governs the requirements of Bageshpur Clay.
2. Application : To serve as one of the constituents in the manufacture of porcelain body mass.
3. Particle Size : Particle Size
above 10 μ m : 12 ± 4 %
4. Residue over 45 μ m sieve : Maximum 1.0 %
5. % Water absorption : 14.0 ± 4.0 %
6. Green Strength (kgs/Cm²) : Minimum 13.0
7. Freedom from Defects : The clay shall be free from foreign materials such as sand and red ochre.
8. Chemical Composition :
 - a) SiO₂ 45.0 ± 3.0 %
 - b) Al₂O₃ 37.5 ± 2.5 %
 - c) Fe₂O₃ Less than 2.0 %
 - d) L.O.I..... 13.0 ± 1.5 %

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JAPAN BALL CLAY

1. General : This Specification governs the requirements of Japan 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 : 5 % Max
4. Residue over 45 μm sieve : Maximum 0.5 %
5. % Water absorption : Nil
6. Green Strength (kgs/ Cm^2) : 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) SiO_2 46.5 \pm 2.5 %
 - b) Al_2O_3 34.0 \pm 2.0 %
 - c) Fe_2O_3 Less than 2.0 %
 - d) L.O.I..... 15.0 \pm 2.0 %

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RAJMAHAL CLAY

1. General : This Specification governs the requirements of Rajmahal 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 : $13 \pm 3.0 \%$
4. Residue over 45 μm sieve : Maximum 1.5 %
5. % Water absorption : <10 %
6. Green Strength (kgs/cm^2) : Min. 17.0
7. Freedom from Defects : The clay shall be free from foreign materials such as sand and red ochre.
8. Chemical Composition :
 - a) SiO_2 $50.0 \pm 3.0 \%$
 - b) Al_2O_3 $35.0 \pm 3.0 \%$
 - c) Fe_2O_3 2.0 % max
 - d) L.O.I..... $13.0 \pm 3.0 \%$

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