SB Minetact

Office Add : C-Wing, Mahavir Complex,
Office No C-9, Near Bank of Baroda Main Branch,
Old Port Road Mundra – Kutch Gujarat 370421.

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Date : 18th March 2021

SBM Boiler Bed Material

Also called as Boiler Sand or Bed Materials or Fire Clay Bed Materials. SB Minetact bed material of Low Ferric High Temperature product, is processed from selected super heat duty refractory aggregates of moderate alumina contents and of highly dense texture.

Composition with refractory silica sand and other minerals, generally used in FBC & CFBC boilers. Also called as Boiler Sand or Bed Materials or Fire Clay Bed Materials. SB Minetact bed material of Low Ferric High Temperature product, is processed from selected super heat duty refractory aggregates of moderate alumina contents and of highly dense texture.

This very special Bed Material of Refractory Aggregates fired at a temperature of 1400 Centigrade has many special characteristics that make it a perfect material for obtaining smooth and perfect fluidization in Fluidized Bed Combustion boilers with high economy of operations.

SB Minetact bed material is made out of specially processed high heat duty refractory aggregates of required density. Our bed material has many special characteristics, which make it a perfect material for C.F.B.C. and F.B.C. boilers for obtaining perfect fluidized action.

Special Characteristics:

- Fully Screened Material with Accurately Controlled Particle Size Distribution
- Free From Dust/ Fine & Over Sized Particles
- Highly Resistant Material Against Clinker Formation
- Perfect Product For Obtaining Smooth Fluidized Action
- Exceptional Chemical Purity with Low Alkali and Low Iron Contents
- High I.D.T. (Initial Deformation Temperature)
- No Free Iron Particles - Passed Through Iron Separators
- Perfectly Controlled Particle Density and Bulk Density
- Very Low Alkali Contents
- No Over Sized Particle

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BED MATERIAL SPECIFICATIONS FOR F.B.C & C.F.B.C BOILER

CHEMICAL PROPERTIES

Alumina as Al2O3

- 30% - 40%
- Silica as SiO2
- 50-60% Max.
- Alkalies Na2O + K2O
- Less Than 1%
- Iron as Fe2O3
- Less Than 2.5%
- Titanium Oxide TiO
- Less Than 1%

PHYSICAL PROPERTIES

- Particle Density
- 2.00 gm/cc
- Bulk Density
- 1000-1100 kg/m ^{3}
- Initial Deformation Temperature
- > 1300° C
- Maximum Particle Size
- 2.80 mm
- Minimum Particle Size
- 0.85 mm
- Note : Other Sizes also available on Request

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PERFORMANCE

Zero Wastage – Low Consumption

Fully Screened Material and Perfect Particle Size Distribution, Free from fines, dust and Over size particles eliminate wastage and reduce Consumption of material including no free flow or wastage in air during operation.

Uniform Heat

Intermediate Particle Distribution of the product in required percentage as per boiler size, height and design leads to perfect conductivity of heat in the boiler.

Resistant against Clinker Formation

The Low ferric chemical property and High Initial Deformation Temperature (PCE value) makes it highly resistant to abrasion and an ideal product against clinker formation at high temperatures.

Safest Product for Boiler Tubes

Exceptional Chemical Purity, low alkalis and moderate alumina contents of the material make it neutral in chemical nature having no chemical reaction with boiler tubes and carbon fuel. These special chemical properties increase efficiency and life span of boiler tubes as well as refractory lining.

Economy of Product

- The product is excellent in operational properties and performance.
- It is highly economical in use in comparison to materials processed from low temp.Ceramic waste.
- SB Minetact bed material offer phenomenal saving of over 40-50% on account of perfect size, low wastage, chemical purity, high refractoriness and heat conductivity.
- The smooth operational properties and extensive particle life of the material results in low downtime.
- The material is most suitable for recycling in certain conditions on account of its very special feature of refractoriness.