



Synergy Chemical Industries

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Factory : Kh. No. 1110, Village Bhawanda, Tehsil Khinvsar, Dist. Nagaur, Rajasthan

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Production Process

Limestone -> Quicklime -> Hydrated Lime

Step 1 : Calcination of Limestone to Quicklime



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Limestone with Purity of 92% to 95% is mined and procured for Calcination from Rich Limestone Deposits in Rajasthan

Petroleum Coke (Petcoke) With High Calorific Value is procured from Indian Refineries

In Vertical Shaft Lime Kilns, 2 Tons of Limestone (Loss on Ignition is 51-54%) is calcinated at 1000-1200 degree Celsius using 200 kg of petcoke to produce 1 Ton of High Purity Quicklime

The resultant product is White Lumps known as

High Purity Quicklime with CaO 80% to 88% Purity

QC Measures :-

1. Screening of Limestone
2. Screening of End Product Quicklime

Step 2 : Slaking of Quicklime into Slaked / Hydrated Lime



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High Purity Quicklime with CaO is screened and sent to Hammer Mill and then feeded into Hydrators or Slakers where they react with water to form Hydrated Lime

Water is purified to ensure quality and then feeded into Hydrated or Slakers where they react with High Purity Quicklime to form Hydrated Lime

In our Hydration Systems equipped with reaction control technology, Quicklime in granule and lumpy form reacts with water and bursts into Fine Snow White Powder called Hydrated Lime

Hydrated Lime Powder is then passed through our Air Classifiers to segregate it based on Fineness of particles

QC Measures :-

1. Screening of Quicklime
2. Composite Sample Testing of every raw material batch

QC Measures :-

1. Water Filtration is carried out to avoid metallic and other impurities in end product

QC Measures :-

1. Temperature and Reaction Time is monitored

QC Measures :-

1. Screening of Hydrated Lime
2. Composite Sample Testing for Purity of every batch of Hydrated Lime

Synergy & NikiLime Branded
– High Purity Hydrated Lime Powder

For more information Contact : +91-9833831479