



Effective parameters on consumption of dust fineness Changes in green anode

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Abstract: In green anode production process calcined petroleum coke recycled anode and butts applied .after different process such as crushing, the granulations are classified as coarse medium, inter medium and dust. In mixing stage at 180°c a layer of pitch coverers all surface of particles and the pitch used as binder.

Each part of granulation according to their size and consumption rate creates a surface which must be covered by pitch, among this particles dust creates most surface due to the size of particles and consumption rate which is basic factor for rate consumption of pitch.

Typically in each particle in green anode paste smaller size of coke particles, more created surface will be happened. Monitoring and controlling of consumption dust is easy by weighting the dust, but controlling the fineness of dust is impossible and most often the effort has been performed for controlling and stabling the surface created from dust. Due to this issue the pitch rate which is needed for production process must be stable and consequently the anode with same quality is produced.

The dust which collected by de dusting system and transferred to dust bunker is one of the crucial factors cause some changes in fineness of the rate of dust .This article has surveyed the parameters that can change the fineness rate of Dust.

Keywords: size distribution; anode quality; optimization pitch consumption