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LAMPIRAN

Lampiran 1 Data Perhitungan Data Kernel, Cangkang Losses, dan Kernel produksi

1. Menghitung Losses Kernel Claybath

$$\text{Dik: } W1 = 979,4$$

$$W2 = 2.7$$

$$W3 = 1.0$$

$$W4 = 1.2$$

$$W5 = 7.1$$

$$\text{Dit : a. \% nut utuh} = \dots?$$

$$\text{b. \% kernel utuh} = \dots?$$

$$\text{c. \% nut Pecah} = \dots?$$

$$\text{d. \% kernel Pecah} = \dots?$$

$$\text{e. Total kernel losses} = \dots$$

Jawab :

$$\begin{aligned} \text{a. \% nut utuh (A)} &= \frac{W2}{W1} \times 100 \% \\ &= \frac{2.7}{979.4} \times 100 \% \\ &= 0.27\% \end{aligned}$$

$$\begin{aligned} \text{b. \% kernel utuh (B)} &= \frac{W3}{W1} \times 100 \\ &= \frac{1.0}{979.4} \times 100 \% \\ &= 0.10\% \end{aligned}$$

$$\begin{aligned} \text{c. \% nut Pecah (C)} &= \frac{W4}{W1} \times 100 \\ &= \frac{1.2}{979.4} \times 100 \% \\ &= 0.12\% \end{aligned}$$

$$\begin{aligned} \text{d. \% kernel Pecah (D)} &= \frac{W5}{W1} \times 100 \\ &= \frac{7.1}{979.4} \times 100 \% \\ &= 0.72\% \end{aligned}$$

$$\begin{aligned} \text{e. Total kernel losses} &= A + B + C + D \\ &= (0.27\%) + (0.10\%) + (0.12\%) + (0.72\%) \end{aligned}$$

$$= 1.21\%$$

2. Menghitung Losses Cangkang Claybath

Dik: $W1 = 967,3$

$$W2 = 1.5$$

$$W4 = 16.8$$

$$W6 = 3.5$$

Dit : a. % nut utuh = ...?

b. % kernel utuh = ...?

c. % cangkang = ...?

e. Total kernel losses = ...?

Jawab :

$$\begin{aligned} \text{a. \% nut utuh (A)} &= \frac{W2}{W1} \times 100 \% \\ &= \frac{1.5}{967,3} \times 100 \% \\ &= 0.15\% \end{aligned}$$

$$\begin{aligned} \text{b. \% kernel utuh (B)} &= \frac{W4}{W1} \times 100 \\ &= \frac{16.8}{967,3} \times 100 \% \\ &= 1,73\% \end{aligned}$$

$$\begin{aligned} \text{c. \% cangkang (C)} &= \frac{W6}{W1} \times 100 \\ &= \frac{3.5}{967.3} \times 100 \% \\ &= 0.36\% \end{aligned}$$

$$\begin{aligned} \text{d. Total losses cangkang} &= A + B + C \\ &= (0.15\%) + (1.73\%) + (0.36\%) \\ &= 2.24\% \end{aligned}$$

3. Menghitung kadar kotor

Dik: $W1 = 1124,5$

$$W2 = 9.0$$

$$W3 = 20.7$$

$$W4 = 36.5$$

$$W5 = 0.3$$

Dit : a. % kernel utuh = ...?

b. % kernel Pecah = ...?

c. % cangkang = ...?

d. % batu = ...?

e. Total kadar kotoran = ...?

Jawab :

$$\begin{aligned} \text{a. \% kernel utuh (A)} &= \frac{W_2}{W_1} \times 100 \% \\ &= \frac{9.0}{1124,5} \times 100 \% \\ &= 0.800\% \end{aligned}$$

$$\begin{aligned} \text{b. \% kernel pecah (B)} &= \frac{W_3}{W_1} \times 100 \\ &= \frac{20.7}{1124,5} \times 100 \% \\ &= 1.841\% \end{aligned}$$

$$\begin{aligned} \text{c. \% cangkang (C)} &= \frac{W_4}{W_1} \times 100 \\ &= \frac{36.5}{1124,5} \times 100 \% \\ &= 3,246\% \end{aligned}$$

$$\begin{aligned} \text{d. \% batu (D)} &= \frac{W_5}{W_1} \times 100 \\ &= \frac{0.3}{1124,5} \times 100 \% \\ &= 0.027\% \end{aligned}$$

$$\begin{aligned} \text{e. Total kadar kotoran} &= A + B + C + D \\ &= (0.800\%) + (1.841\%) + (3.246\%) + (0.027\%) \\ &= 5.914\% \end{aligned}$$

Lampiran 2 foto kegiatan



Claybath



Membuang kotoran kejenuhan



Proses kinerja *Claybath*



Pengecekan BJ larutan



Pengambilan sampel dan pengecekan losses kernel



Penambahan CaCO_3



Sampel keluaran *Claybath*



Sampel keluaran kernel