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In article the technique of forecasting of emissions of gases which are formed during thermal processing in technology of binders materials is offered. Conclusions about interrelation of amount of gaseous products with mineralogical structure of initial raw material, enthalpy chemical reactions of formation of minerals an end-product of roasting, the charge of fuel on process and technological efficiency are made.

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$$G = G \frac{q - q}{y \cdot Q_p} + G_{CO_2} + G_{H_2O}^M / ;$$

Q_p – , /³ ; G_{CO_2} –
 , / ; $G_{H_2O}^M$ –
 , / .

$$G_{CO_2} = G_C \cdot M_{CO_2} \left(\frac{CaCO_3}{M_{CaCO_3}} + \frac{MgCO_3}{M_{MgCO_3}} \right) \cdot 0,01.$$

$$G_{H_2O} = G_W + G_W \cdot$$

$$G_{H_2O} = \frac{G_C \cdot W}{100 - W}.$$

$$G_{H_2O} = G_C \left[\frac{n \cdot M_{H_2O} \cdot ASH}{M_{ASH}} + \frac{2 \cdot M_{H_2O} (CaSO_4 \cdot 2H_2O)}{M_{CaSO_4 \cdot 2H_2O}} \right] \cdot 0,01;$$

$$M_{CO_2}, M_{CaCO_3}, M_{MgCO_3}, M_{H_2O}, M_{ASH}, M_{CaSO_4 \cdot 2H_2O} -$$

; $CO_3, MgCO_3, ASH,$

$CaSO_4 \cdot 2H_2O$ –

; G_C – , / ; G_W – , / ; G_W – , / ; W – , % .

$$B_T = \frac{q - q}{y \cdot Q_p}$$

$$G = G \cdot B_T + G_C \cdot M_{CO_2} \left(\frac{CaCO_3}{M_{CaCO_3}} + \frac{MgCO_3}{M_{MgCO_3}} \right) \cdot 0,01 + \frac{G_C \cdot W}{100 - W} + G_C^T \left[\frac{n \cdot M_{H_2O} \cdot ASH}{M_{ASH}} + \frac{2 \cdot M_{H_2O} (CaSO_4 \cdot 2H_2O)}{M_{CaSO_4 \cdot 2H_2O}} \right] \cdot 0,01.$$

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In the article the results of basic physical, mechanical and technical characteristics exploration for grouting mortar derived from CBS-cement are described. Optimal aggregate which provides higher operating characteristics was determined.