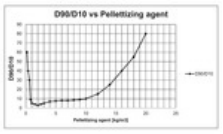
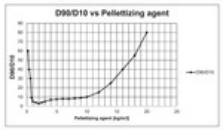
2 results for (cement+ and pellet+ and drying and cellulose and chitosan and collagen and polyacrylamide)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX AND (C04B-018/02)/IPC - Collection: FAMPAT

#	Title	Publication number	1st app. date	Applicant/Assignee	1st publ. date	Publ. date
1.	Method to produce aggregates from unsettled **cementitious** mixtures	WO2016198384	2015-06-08	CEMEX RESEARCH*	2016-12-15	2016-12-15

Method to produce aggregates from unsettled **cementitious** mixtures, comprising the steps of (a) adding at least one **pelletizing** agent to an unsettled **cementitious** mixture, (b) mixing constantly the mixture of step (a) in a mixer to produce **pellets**, (c) discharging the **pellets** obtained in step (b) and (d) **drying** the **pellets** formed in step (c). The **pelletizing** agent is selected from the group consisting of **cellulose**, **chitosan**, **collagen**, **polyacrylamide** and co-polymers of **polyacrylamide** and polyacrylics, polyamines, polyvinylalcohols, polysaccharides, lactic acid, methacrylic acid, methacrylate, hydroxyethyl, ethylene glycol, ethylene oxide, acrylic acid, inorganic flocculants and inorganic coagulants.





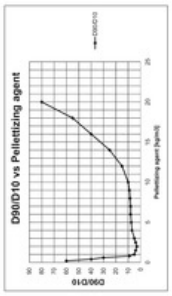


Fig. 1

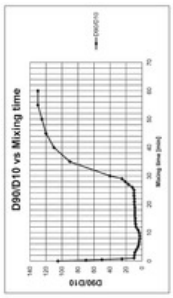


Fig. 2

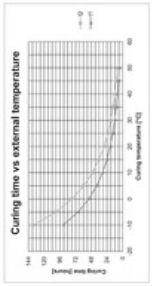


Fig. 3

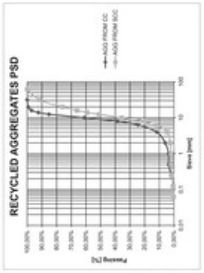


Fig. 4

2.	Method to artificially agglomerate finely divided materials	WO2016188559	2015-05-26	CEMEX RESEARCH*	2016-12-01	2016-12-01

Method to artificially agglomerate finely divided materials. A method to agglomerate finely divided material into aggregates, the aggregates being larger than the finely divided material, comprising the steps of (a) mixing finely divided material, binder and water in a mixer, (b) adding an agglomerating agent to the mix formed in step (a) and mixing constantly. Finely divided material is selected from the group consisting of **cement**, sand, clay, glass, slag, fly ash, stone powder, bypass dust, limestone, silica fume, crushed brick, brick powder and crushed stone or a combination thereof.

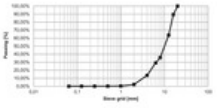


Fig. 1

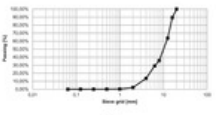


Fig. 1

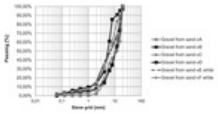


Fig. 2

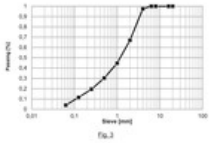


Fig. 3

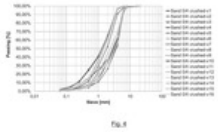


Fig. 4

$$Al = FM_{Std} \times \frac{D_{90}}{D_{10}} \quad \text{eq. 1}$$

$$FM_{GF} = 4 \cdot \mathrm{Log}_{10}\left(\frac{PF}{40}\cdot 100\right) \quad \text{eq. 3}$$

$$FF = \frac{(p_1 \times v_1) + (p_2 \times v_2) + \ldots (p_i \times v_i)}{v_1 + v_2 + \ldots + v_i} \quad \text{eq. 5}$$

$$FM_{GF} = 1.013 \cdot \mathrm{Log}_{10}\left(\frac{PF}{45.32}\cdot 100\right)$$

$$FM_{GF} = 0.336 \cdot \mathrm{Log}_{10}\left(\frac{PF}{199}\cdot 100\right)$$