

Title (en)

Sodium silicate and aluminosilicate cogranulates, process for the preparation thereof and use thereof

Title (de)

Aus Alumosilicaten und Natriumsilicaten bestehende Cogranulate, ein Verfahren zu ihrer Herstellung und ihre Verwendung

Title (fr)

Cogranulés de silicate de sodium et d'aluminosilicates, procédé pour les fabriquer et utilisation de ceux-ci

Publication

**EP 0563631 B2 20010905 (DE)**

Application

**EP 93103728 A 19930309**

Priority

DE 4210253 A 19920328

Abstract (en)

[origin: EP0563631A1] Cogranulates which readily disintegrate in water and have a high bulk density consist of aluminosilicates and crystalline sodium silicates having a sheet structure. They contain aluminosilicates of the formula  $M2/n.Al3O3.xSiO2.yH2O$ , in which M is an alkali metal or alkaline earth metal, n indicates the valency of the cation, x is  $\geq 2$  and y has a value between 0 and 8. The sodium silicates have an  $SiO2/Na2O$  ratio of (from 1.8 to 4.2) : 1. In order to prepare said cogranulates, the pulverulent aluminosilicates and sodium silicates are mixed together and the mixture is fed into a zone in which it is compacted under pressure between two contrarotating rollers to give a solid. After comminution of the solid, the required particle sizes are finally separated from the oversize and undersize. The cogranulates can be used in detergents and cleaning agents.

IPC 1-7

**C01B 33/20**; **C11D 3/12**

IPC 8 full level

**C01B 33/20** (2006.01); **C01B 33/38** (2006.01); **C01B 39/00** (2006.01); **C01B 39/14** (2006.01); **C11D 3/08** (2006.01); **C11D 3/12** (2006.01)

CPC (source: EP)

**C11D 3/1273** (2013.01); **C11D 3/128** (2013.01)

Cited by

US5874397A

Designated contracting state (EPC)

BE DE ES FR GB IT NL

DOCDB simple family (publication)

**EP 0563631 A1 19931006**; **EP 0563631 B1 19970730**; **EP 0563631 B2 20010905**; DE 4210253 A1 19930930; DE 59306989 D1 19970904; ES 2107569 T3 19971201; ES 2107569 T5 20011216; JP 3237946 B2 20011210; JP H0641585 A 19940215

DOCDB simple family (application)

**EP 93103728 A 19930309**; DE 4210253 A 19920328; DE 59306989 T 19930309; ES 93103728 T 19930309; JP 6886193 A 19930326