

PROCESS OF MANUFACTURING A CO-GROUND CALCIUM CARBONATE MATERIAL OF THE GCC
AND PCC TYPE WITH A SPECIFIC STEEPNESS FACTOR, OBTAINED PRODUCTS AND THEIR USES

Abstract

An object of the present invention is to provide a process to obtain a calcium carbonate material comprising GCC and PCC, with a specific steepness factor (defined as $d_{30} / d_{70} \times 100$, where d_x is the equivalent spherical diameter relative to which x % by weight of the particles are finer) of at least about 30, preferably of at least about 40, and most preferably of at least about 45, in a cost efficient manner, wherein GCC and PCC are co-ground, possibly with at least another mineral material. An other object of the present invention lies in the obtained co-ground calcium carbonate material in the form of an aqueous suspension and in the form of a dry product. An other object of the present invention lies in the uses of such products in any sector making use of mineral materials, and notably in the paper, paint and plastic industries.