

## Abstract

The invention relates to a method for producing artificial crushed sand by means of a thermal treatment using sand in the form of fine sand (FS/FSa) and/or round sand as the starting material (1). The starting material (1) in variant A is heated to a melting temperature by bundling sun rays (13), and/or the starting material in variant B is heated to a melting temperature by using a conventional melting device which achieves its energy supply using converted or stored solar power, whereby each of a plurality of sand grains are melted together into a three-dimensional intermediate product (2). The intermediate product (2) produced in this manner is cooled and finally comminuted to a particle size of less than 2 mm in a comminuting process. An end product (3) is produced which differs from the starting material (1) with respect to the shape and surface roughness. The method offers a long-term solution for meeting the demand for crushed sand and provides sand for the construction industry.