Abstract

Mouldings based on silica

Moulding based on silica, existing in a hollow cylindrical configuration with internal reinforcing stays or spokes leading from the inner wall of the hollow cylinder to the centre of the moulding or in the form of what are termed miniliths, are produced by homogenising silica with methyl hydroxyethyl cellulose, wax and/or polyethylene glycol with the addition of water and optionally with the addition of an aqueous alkaline ammonia solution, subjecting it to a kneading and working process, extruding, optionally cutting the extrudate to the desired length by means of a cutting device, drying at a temperature from 20 to 150°C, and annealing for a period from 30 minutes to 10 hours at a temperature of 400 to 1200°C.

These mouldings can be used as catalyst supports for the production of unsaturated esters from olefines, organic acids and oxygen in the gas phase and and can be used in particular for the production of vinyl acetate monomer.

Figure 1