



ABSTRACT

IMPROVEMENT FOR THE PREPARATION OF SUPERABSORBENT
POLYACRYLATES

For the preparation of superabsorbent powders consisting of partially neutralised polyacrylic acid, by a process comprising the formation of a polymer gel by a first polymerisation of monomer in inverse suspension followed by the polymerisation of a second monomer charge absorbed in this gel, there are used successively monomeric acrylic acid charges over-neutralized and under-neutralized respectively with respect to the degree of neutralization of the final polymer. The powders thus obtained consist of particles of spheroidal form. It is very advantageous to conduct this process with the aid of emulsifiers suitably chosen in order that the phase of absorption of monomer by the intermediate gel may be carried out at temperatures of the order of 35-45°C.

(Fig. 2)