

suitable absorption rate pattern, that is, an absorbent resin particle having an absorption rate pattern where the rate is slow in the early stage, moderate in the middle stage, and fast in the late stage. Another object thereof is to provide an absorption article free from such problems as skin irritation by using the absorption resin particle.

[Means for Solving the Problems]

[0006]

As a result of extensive studies for achieving the above objects, the present inventors found that an absorbent resin particle having a specific absorption rate pattern can solve the above problems and thus accomplished the invention.

That is, in one aspect, there is provided~~the gist of the absorbent resin particle of the invention is~~ an absorbent resin particle comprising a crosslinked polymer (A1) including, as an essential constituent unit, a water-soluble vinyl monomer (a1) and/or a hydrolyzable vinyl monomer (a2) and a crosslinking agent (b), wherein, in a measurement method of swelled volume per 1 g of the absorbent resin particle against physiological saline, a ratio (t_2/t_1) of the time (t_2) until swelled volume reaches 40 ml to the time (t_1) until the swelled volume reaches 5 ml is 5 to 20.

[0007]

Another aspect provides an~~The gist of the absorber of the invention is to coprise~~comprising the above-described absorbent resin particle and a fibrous material.

[0008]

Another aspect provides an~~The gist of the absorbent article of the invention is to comprise~~ing the above-described absorber.

[0009]

Another aspect provides~~The gist of the process for producing an absorbent resin particle is a process for producing an absorbent resin particle comprising:~~

a step of mixing and/or kneading a hydrophobic substance (C) with a hydrogel of a crosslinked polymer (A1) including, as an essential constituent unit, a water-soluble vinyl monomer (a1) and/or a hydrolyzable vinyl monomer (a2) and an internal crosslinking agent (b); and/or

a step of obtaining a hydrogel of a crosslinked polymer (A1) by polymerizing a water-soluble vinyl monomer (a1) and/or a hydrolyzable vinyl monomer (a2) and an internal crosslinking agent (b) as an essential constituent unit in the presence of a hydrophobic substance (C),

wherein, in a measurement method of swelled volume per 1 g of the absorbent resin particle against physiological saline, a ratio (t_2/t_1) of the time (t_2)