CLAIMS

[Claim 1]

A production method for water-absorbent resin particles comprising a crosslinked polymer, the production method comprising:

a preparation step of preparing a polymer solution that comprises a polymer having a weight-average molecular weight of 300,000 or greater and a solvent; and

a crosslinking step of crosslinking the polymer.

[Claim 2]

The production method according to Claim 1,

wherein the preparation step comprises a cleavage step of cleaving a crosslinked structure of a crosslinked polymer comprised in a water-absorbent resin to be subjected to chemical decomposition to obtain the polymer, and

the cleavage step is performed in a treatment tank storing a reaction solution comprising the water-absorbent resin to be subjected to chemical decomposition and comprises an operation of setting an oxygen concentration in a gas phase of the treatment tank to 18% by volume or less.

[Claim 3]

The production method according to Claim 2,

wherein the cleavage step comprises an operation of increasing a temperature of the reaction solution to 50°C or higher.

[Claim 4]

The production method according to Claim 2 or 3,

wherein the reaction solution comprises at least one of an acid

component or an alkaline component.

[Claim 5]

The production method according to any one of Claims 1 to 3,

wherein the crosslinking step comprises crosslinking the polymer through a covalent bond.

[Claim 6]

An absorbent body comprising:

water-absorbent resin particles obtained by the production method according to any one of Claims 1 to 3.

[Claim 7]

An absorbent article comprising:

the absorbent body according to Claim 6.