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ABSTRACT

An aqueous cutting liquid comprises a cationic water-soluble resin having an amine value of 20 to 200 mgKOH/g, and at least one members of a rheology control agent selected from the group consisting of an inorganic bentonite, an organic bentonite and an aqueous silica sol, wherein the content of a nonvolatile matter of the rheology control agent is 0.1 to 30 percent by weight of the amount of the nonvolatile matter of the cationic water-soluble resin. An aqueous cutting agent comprises the aqueous cutting, and an abrasive grain, wherein the content of the abrasive grain is 100 to 1000 percent by weight of the amount of the nonvolatile matter of the aqueous cutting liquid. A hard and brittle material is cut by a cutting device using the aqueous cutting agent. The present invention provides an aqueous cutting agent which is excellent in dispersion stability of the abrasive grain and viscosity stability during cutting/cutting operations, aqueous cutting liquid usable for the aqueous cutting agent, and a cutting/cutting method excellent in cutting performance, cleanability and the like of the work material on cutting/cutting hard and brittle material by using the cutting agent.