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The relationship between the physicochemical properties of the aggregates and the dry shrinkage of concrete was investigated. The amount of dry shrinkage depends on Young's modulus of the coarse aggregate, the water absorption rate, and the amount of clay lumps of the fine aggregates. Washing of the aggregates reduced the amount of clay lumps in the aggregates and caused a reduction of about 100μ in the dry shrinkage of concrete. The abovementioned reduction in the dry shrinkage was almost equal to that in the case of concrete containing a shrinkage reducing agent.