

ABSTRACT

A process for producing high-purity sulfuric acid, comprising: an absorption step of causing water to contact sulfuric acid anhydride in a gaseous state which may possibly contain sulfurous acid gas as an impurity, so as to cause the sulfuric acid anhydride to be absorbed into the water, thereby to provide sulfuric acid; a stripping step of subjecting the sulfuric acid to stripping by use of air, thereby to separate and remove the sulfurous acid gas in the sulfuric acid; and a transport step of subjecting at least a portion of the sulfuric acid to liquid transportation by means of a circulating pump; wherein the temperature of the liquid at the inlet port of the circulating pump is 0 - 30 °C. When the above process is used, it is possible to produce high-purity sulfuric acid from which metal constituents and sulfurous acid gas as impurities have highly been removed.