

ABSTRACT

Explanatory note contains 48 p., 5 fig., 8 tab., 2 ap., 14 bibl.

The project of catalytic oxidation of sulfur oxide (IV) of department sulfuric acid has been developed.

Physicochemical fundamental of oxidation of sulfur oxide (IV) of department sulfuric acid have been considered in the project, process flow sheet has been introduced. The choice of preparation method of the catalyst has been proved, physicochemical fundamental of selected method have been considered, catalyst production flow sheet has been represented. Quantitative calculations have been done. Equipment of catalyst manufacture has been selected and described in the project. Possible ecological problems have been considered, ways of problems solution have been introduced.

Calculation with the use of computer has been done in Excel. Multiple calculations have been done.

SULFURIC ACID, SULFUR OXIDE (IV), CATALYST, IMPREGNATION, SILICA GEL, IC, DRUM DRIER, SCREW CONVEYOR, ENVIRONMENTAL SAFETY