

Course work in discipline "Constructional materials technology of inorganic substances" on " Production of sulfuric acid "

Explanatory note: 20 pages, 2 links.

Examined physical and chemical bases of production of sulfuric acid.
Represented drawings of the technological scheme.

Substantiated selection of constructional materials of technology equipments and apparatus.

SULFURIC ACID, PYRITES, SULFUR OXIDE (VI), OLEUM, ABSORPTION.

For dry precipitator selected carbon steel grades Cт3 and Cт4. For the first and second housings of drilling towers used БCт3сп, БCт4кп, БCт3кп and БCт4кп; acid-resistant ceramic lining implemented. For wet electrostatic precipitators used alloy steel 06X28MД. Wetting tower made from 12X18H10T. Drying tower made of 10X17H13M2T, acid-resistant ceramic lining implemented. Apparatus for catching splashes of 12X18H10T. Blower with C15 or CЧ12X13T. The heat exchanger of 08X22H6T or 10X17H13M2T. Contact device with 03X21H21M4ГБ. Economizer with Cт3 and Cт5. Oleum absorber of Cт4. Monohydrate absorber with Cт3 or X18H10T. In these absorbers made acid-resistant ceramic lining implemented. Irrigating with refrigerators X17H13M2T or X18H10T. Tubular refrigerator of Cт3 or Cт4. Collections are made of acid CЧ18C15Г, Cт3 or Cт4.