

Course work from discipline "**Construction materials in technology of inorganic substances**" on the topic: "Separation of steam reforming of natural gas of the nitric acid plant".

Considered the physicochemical fundamentals of natural gas conversion and presents the technological scheme of the process. Drafts the technological scheme and the main apparatus.

Structural materials of technological equipment were chosen.

NATURAL GAS, HYDROGEN CONVERSION, CARBON MONOXIDE, PIPE CONVERTOR, PRODUCTION TECHNOLOGY, MIXING, HEAT, STEAM.

Heatexchanger, adsorber, steamheater made of stainless steel 12X18H10T. Steel alloyed by chrome 12X17 are chosen for steammixer, humidifier, wasteboiler. Tubular converter of methane and the methane converter of the second degree made of heat-resistant steels 15X28 and 15 X25T.