

## **Industrial Tests of Dust and Gas Foam Gas Cleaning Plant from Modified Red Phosphorus**

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**Abstract:** Industrial tests of a dust and gas purification plant of the production of modified red phosphorus, operating on the principle of foam filtration and absorption, were carried out. The operability of the main process equipment and compliance with the operational characteristics of the dust and gas purification system as a whole were checked. It is shown that the plant is operable, during operation the values corresponding to the requirements laid down in the terms of reference have been achieved. The degree of purification of dust and gas emissions from red phosphorus dust was more than 99 %. The parameters of the plant operation have been determined, the maintenance of which during the operation of the equipment in the specified intervals will ensure the maximum degree of recovery of toxic substances from industrial emissions.

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