

- B) 500 °C;
- C) 800 °C;
- D) 650 °C;
- E) 440 °C.

2.2. TECHNOLOGY OF FIXED NITROGEN

Atmospheric nitrogen binding methods (arc, cyanamide, ammonia). Methods of producing nitrogen-hydrogen mixture (separation of gases by method of deep cooling, conversion of generator and natural gas). Technology of purification of gases

The main methods for fixing atmospheric nitrogen:

- arc;
- cyanamide;
- ammonia;
- variant of the ammonia method.

The arc method was developed in the late XVIII and early XX centuries. Nitrogen was bound from atmospheric air by oxidation with oxygen at an arc temperature of 3,000 – 4,000 °C and an energy consumption per 1 ton of bound nitrogen of 60,000 kW · h: