

Process for reducing iron oxide in cast iron production involves grinding iron-bearing raw materials, feeding the raw materials and reducing agent into the reaction zone of a blast furnace, heating the raw materials and reducing agent to the temperature required for iron reduction, removing gaseous reduction products, and accumulating and discharging molten cast iron. When fed into the blast furnace, the raw materials are irradiated with gamma radiation, the source of which is the radionuclide cobalt-60.