

## Categories of Technical Devices subject to approval by Rostekhnadzor

1. Hoisting and conveying machinery such as cranes, hoists, rigs, lifts, escalators, passenger conveyors, aerial tramways, and other equipment.
2. Boiler units equipment, steam and hot-water pipelines, pressure equipment (pressure exceeding 0.7 kgf/cm<sup>2</sup>).
3. Explosion-proof and mining electric equipment.
4. Technical devices for mining and ore-dressing enterprises, and sub-soil facilities unrelated to extraction or natural resources.
5. Equipment and instruments used at blasting operations for industrial purposes.
6. Gas equipment for boilers, process lines and devices, gas burner units, tank and flow water heaters.
7. Technical devices for oil and gas production enterprises (oil and gas production equipment, gas refining equipment, drilling equipment, prospecting and geological survey equipment, main pipeline transportation equipment).
8. Technical devices at hazardous industrial facilities for chemical, petrochemical, oil refining and other industries operating with explosive, inflammable, toxic or aggressive media. Such equipment includes tanks, reactors, pressure vessels, machinery, together with cryogenic, electrolysis, mass-exchange, heat-exchange, grinding, straining, and drying equipment. Also furnaces, reservoirs, as well as other equipment delivered both separately and in packages comprised of components and sub-assemblies.
9. Technical devices for hazardous industrial facilities for grain storage and processing.
10. Equipment for hazardous industrial facilities for ferrous and non-ferrous metallurgy such as blast furnaces, coke and steel works together with process equipment for non-ferrous metallurgy.
11. Vacuum and other steel refining plant; continuous casting machines for steel and semi-continuous casting machines for non-ferrous metals and equipment for them; pipe-rolling, aluminium and copper wire/rod plants; bloom, billet, section and plate mills.
12. Electric furnaces; electric furnaces units and devices for producing ferrous and non-ferrous melts and alloys on the basis of these melts (induction furnaces and their associated plant; induction heating units and devices; arc ore thermal furnaces; resistor furnaces and units).
13. Pig iron smelting equipment. Gas protection respiration apparatuses (insulation respirators, air apparatuses, insulation and filtering escape [breathing] apparatuses); gas control instruments; technical devices including special protection suits for elimination of emergency situations.
14. Automation instruments and devices used at hazardous industrial facilities (technological process control and adjustment instruments; software and hardware complexes for automated systems; devices and instruments for measuring mechanical values; safety automation instruments; pressure regulators, meters, gas analysers).
15. Fluid and vacuum pumps; pump aggregates; air and gas compressors including spare parts.
16. Special tanks and containers; liquefied gas tanks; tanks for explosive, inflammable and toxic media.
17. Pipelines and their units manufactured of steel, non-ferrous metals, alloys and non-metal materials for hazardous industrial facilities.
18. Electric welding equipment operated at hazardous industrial facilities.
19. Valves, accessories and fittings for technical devices operated at hazardous industrial facilities.