

FUNCTIONAL SAMPLES DEVELOPED IN NTC	Result number
Flexible indium-free piezo generator set	NTC-FVZ-19-001
Functional sample of a laser system for IRNDT	NTC-FVZ-19-002
Functional sample - Thermographic measuring system for measuring the temperature field and detecting anomalies in 3D metal printing	NTC-FVZ-19-003
Functional sample of a measuring system for analyzes of spectral normal emissivity of materials at high temperatures	NTC-FVZ-19-004
FBAR device made of transparent layers using piezoelectric properties of ZNO	NTC-FVZ-19-005
Functional sample of an optimized mixing steam cooler	NTC-FVZ-19-006
Preparation for the treatment of polymeric membranes moistened with nitrogen	NTC-FVZ-18-001
Preparation for cooling the internal structure of a hydrogen fuel cell	NTC-FVZ-18-002
Sample preparation device for measuring viscoelastic behavior	NTC-FVZ-18-003
Preparation for shaping hydrogels for measuring their thermal properties	NTC-FVZ-18-004
Preparation for the formation of membranes	NTC-FVZ-18-005
System for laser welding of thermoplastic composites with long fibers	NTC-FVZ-18-006
Functional sample of laser welded part KMH-30 made of plastic composite	NTC-FVZ-18-007
Functional sample of a JFS-18 steel part with a functional surface treatment to increase the service life performed by a picosecond laser	NTC-FVZ-18-008
Functional sample of a measuring system for analysis of laser welding of plastic composites	NTC-FVZ-18-009
Functional sample of high hardness coating based on carbide (TiW) C in nickel alloy created by a laser coating method	NTC-FVZ-18-010
Functional sample of a test stand for measuring the operating properties of	NTC-FVZ-17-001
Preparation for measuring electrical and ionic conductivity using thin layers of platinum	NTC-FVZ-17-002
IRNDT flash-trigger, Flash-pulse control unit for pulsed IRNDT measurements	NTC-FVZ-17-003
Functional sample of a measuring system for the analysis of thermal processes at the interface of joined plastics during laser transmission welding	NTC-FVZ-17-004
Functional sample of high-frequency tubes of pyrolytic carbon	NTC-FVZ-17-005
A movable linear radiation source	NTC-FVZ-17-006
System for laser welding of thermoplastics	NTC-FVZ-17-007
Functional sample of the method of conductive connection of graphite felt and composite board.	NTC-FVZ-17-009
Laser system for sLST	NTC-FVZ-16-001
Plain bearing with sLST surface	NTC-FVZ-16-002
FUNCTIONAL SAMPLE OF COMPOSITE PLATE	NTC-FVZ-16-003
Functional samples of porous catalysts	NTC-FVZ-16-004
BSV 1 - functional sample of glasses for the blind	NTC-FVZ-16-005
Laser deposition of titanium silicate coatings on porous titanium surfaces - the creation of Ti-Si porous surfaces from powder materials	NTC-FVZ-16-006
Functional sample of a device for measuring the longitudinal and transverse electrical resistance of flat samples	NTC-FVZ-15-001
Functional samples of porous catalysts	NTC-FVZ-15-002
Functional sample of a multilayer pipe to reduce the occurrence of static charge	NTC-FVZ-15-003
Functional sample of granulate for the production of conductive composite boards	NTC-FVZ-15-004
Functional sample of a spectrometric device for measuring the spectral emissivity of permeable materials at room temperature	NTC-FVZ-14-001
Functional sample of equipment for thermographic measurement of material fatigue limit	NTC-FVZ-14-002
Functional sample of thermographic measuring system for fatigue measurement	NTC-FVZ-14-003
Functional sample of equipment for infrared non-destructive testing of protective glasses of process laser heads.	NTC-FVZ-14-004
Preparation for rheometric measurements of geopolymers and hydrogels with the TA Instruments ARES G2 instrument during controlled heating in the F	NTC-FVZ-13-001
Functional sample of a device for measuring the flatness field of solar cells	NTC-FVZ-13-002
Functional sample of a spectrometric device for measuring the spectral emissivity of material surfaces in the room temperature range	NTC-FVZ-13-003
Functional sample of a measuring system for analysis of thermal properties of material surfaces	NTC-FVZ-13-004
Functional sample of a measuring system for capturing the time course of phase and structural changes of the material occurring in the order of nanoseconds	NTC-FVZ-13-005
Functional sample of device for measuring the inclination and scattering of water jets of the washer	NTC-FVZ-13-006
Functional sample of a measuring system for the evaluation of residual stresses by the laser drilling method	NTC-FVZ-13-007
Functional sample of a system for non-contact measurement of temperature and deformation fields	NTC-FVZ-13-008
Functional sample of a device for PIV measurement of the flow part of a flue gas fan	NTC-FVZ-13-009
Functional sample - Solar-String Tester. Equipment for diagnostics of solar strings.	NTC-FVZ-12-001
A device for measuring the change in electrical voltage between uniaxially positionable electrodes during a phase transition	NTC-FVZ-12-002
The head acceleration measuring device	NTC-FVZ-12-003
Wireless sensor for measuring muscle activity (EMG)	NTC-FVZ-12-004
Pad for temperature measurement	NTC-FVZ-12-005
Form for preparation of test specimens by electro-resistance curing method.	NTC-FVZ-12-007
Device for measuring relative permeability on open samples at different frequencies in the acoustic region and at the selected level of magnetization	NTC-FVZ-12-008
Multi-purpose device for the development of laser quasi-simultaneous welding technologies	NTC-FVZ-12-009
Multi-purpose device for the development of laser surface cleaning technologies	NTC-FVZ-12-010
Functional sample of a laser device for testing drilling of spray system nozzles	NTC-FVZ-12-011
Functional sample of an automatic laser scanning system demonstrator	NTC-FVZ-12-012
Functional sample of a hand-held demonstrator of a laser scanning system	NTC-FVZ-12-013
Thermobox for testing the functional properties of the device depending on the temperature	NTC-FVZ-12-014
Functional sample of a freezer box for testing photovoltaic panels	NTC-FVZ-12-015
Functional sample of a heating box for testing photovoltaic panels	NTC-FVZ-12-016
Functional sample of measuring equipment for testing the performance characteristics of photovoltaic panels	NTC-FVZ-12-017
Voltage generator with piezoelectric ZnO layer	NTC-FVZ-12-018
Lithographic masks for the preparation of microelectrochemical sensors	NTC-FVZ-12-019
Sensor for segmented flow characterization	NTC-FVZ-12-020
Glass chip with electrode field	NTC-FVZ-12-021
Microchip for creating a three-phase segmented flow	NTC-FVZ-12-022
Functional sample - IRTC-Box. Equipment for non-contact temperature measurement in extreme industrial conditions	NTC-FV-01-11

Functional sample - Radbox Gas II. Equipment for analysis of radiant properties of materials in gas heating systems with control of heating gas and airflow	NTC-FV-02-11
Functional sample - Compact system for measuring temperature fields on a disc brake on a car	NTC-FV-03-11
Equipment for measuring temperature dependences of spectral emissivity of coatings	NTC-FV-04-11
Laser device for high-temperature heating of samples for measuring the optical properties of surfaces	NTC-FV-05-11
Functional sample of a 400 W laser cutting system	NTC-FV-06-11
Functional sample of a laser system with a 600 W CO ₂ laser for cutting materials	NTC-FV-07-11
LED solar simulator II	NTC-FV-09-11
Functional sample HŽ1 - Device for homogeneous radiation heating of a complex interior space	NTC-FV-11-11
Shear test chamber for measuring the shear stiffness of oilseeds	NTC-FV-12-11
Linear pressing chamber for consolidation test of oilseeds	NTC-FV-13-11
Experimental device for instrumented measurement of permeability of organic filtrate	NTC-FV-14-11
Laboratory equipment for measuring the rheological properties of oilseeds	NTC-FV-15-11
Ultrasound probe US11.0	NTC-FV-16-11
Battery inductive flowmeter sensor DN20	NTC-FV-17-11
Battery inductive flowmeter sensor DN100	NTC-FV-18-11
Functional sample -RadTester. Equipment for testing materials under radiant heat loading.	NTC-FV-01-10
Functional sample -Solar Panel Tester. Equipment for inter-operational testing of solar panels.	NTC-FV-02-10
Functional sample - TBB / AMO-SJV. Equipment for measuring temperatures in the continuous step furnace Arcelor Mittal Ostrava - Medium-rolling mill.	NTC-FV-03-10
Adjustable device for heating samples for measuring optical and thermal properties of surfaces	NTC-FV-04-10
Functional sample of a robotic system for measuring the angular dependences of the emissivity of a material surface	NTC-FV-05-10
Functional sample of an HTPL-A device for measuring the relative total emissivity of coatings	NTC-FV-06-10
Functional sample - TBB / SVK. Equipment for measuring temperatures in a continuous step furnace Sochorová válcovna Kladno-Dříň.	NTC-FV-07-10
Functional sample - Radbox Gas. Equipment for experimental analysis of radiant properties of materials in gas heating systems.	NTC-FV-08-10
Functional sample of LED solar simulator	NTC-FV-09-10
Functional sample of a handling system for testing solar cells	NTC-FV-10-10
Three-beam ultrasonic flow meter UC10.0	NTC-FV-11-10
Five-beam ultrasonic flow meter UC10.0	NTC-FV-12-10
Ultrasound probe US10.0	NTC-FV-13-10
Ultrasound probe US10.1	NTC-FV-14-10
Inductive flowmeter sensor DN100 with pole pieces	NTC-FV-15-10
Wilson grille for wind tunnel	NTC-FV-16-10
A set of probes for determining the pressure loss of the measured object	NTC-FV-17-10
Functional sample of a system for high-temperature testing and modification of coatings	NTC-FV-01-09
Functional sample of the brake stand	NTC-FV-02-09
Functional sample of an infradetector system for measuring thermomechanical instabilities of disc brakes	NTC-FV-03-09
Functional sample of a system for non-contact temperature measurement of drum brakes	NTC-FV-04-09
Functional sample of a system with a thermal box barrier for non-contact temperature measurement in vacuum	NTC-FV-05-09
Functional sample of a system for measuring the spectral emissivity of high temperature coatings	NTC-FV-06-09
Functional sample of a robotic system for high-temperature testing of coatings	NTC-FV-07-09
Functional sample of an automotive stand for testing brake systems	NTC-FV-08-09
Functional sample of a system for multichannel thermocouple measurements	NTC-FV-09-09
Thin-film solar cell based on amorphous silicon	NTC-FV-10-09
Thin-film solar cell based on hydrogenated amorphous silicon with a highly dilute absorption layer	NTC-FV-11-09
Modular measuring space for wind tunnel	NTC-FV-12-09
Measuring hot air pressure loop	NTC-FV-13-09
Liquid measuring circuit with heating	NTC-FV-14-09
Hot compressed air flow meter	NTC-FV-15-09
Modular acoustic muffler	NTC-FV-16-09
Probe for measuring the temperature distribution of flowing air in honeycomb systems of exchangers	NTC-FV-17-09
Lightweight screw compressor rotor with the reduced moment of inertia	NTC-FV-18-09
The air-air exchanger with a modified honeycomb system	NTC-FV-19-09
The water-air exchanger with a modified honeycomb system	NTC-FV-20-09
System for measuring the efficiency of catalyst development cartridges	NTC-FV-21-09
Functional sample of an optical fiber system for measuring thermomechanical instabilities of disc brakes	NTC-FV-01-08
Functional sample of a stationary system for testing thermomechanical instabilities of disc brakes	NTC-FV-02-08
Functional sample of a measuring system for determining the band emissivity of coatings at high temperatures	NTC-FV-03-08
Functional sample of a steel piston ring	NTC-FV-04-08
Functional sample of the system for fast non-contact measurement of disc deformations during braking	NTC-FV-01-07