



## SCOPE OF ACCREDITATION

TEST LABORATORY (GOST ISO/IEC 17025-2019)

**Test Center of OOO Izhorskaya Nauchno-tehnicheskaya Kompaniya**

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name of test laboratory

**RA.RU.21ИЖ01**

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Number in the register of accredited persons

**1. RUSSIA, St. Petersburg, Kolpino, Finlyandskaya str. 13, lit. BM.**

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addresses of business places

**2. RUSSIA, St. Petersburg, Kolpino, Izhorsky Zavod 42, site 2, lit. BC.**

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addresses of business places

For compliance with

GOST ISO/IEC 17025-2019 General requirements for the competence of testing and calibration laboratories

name and details of interstate or national standard

**RUSSIA, St. Petersburg, Kolpino, Finlyandskaya str. 13, lit. BM.**

addresses of business places

No.	DOCUMENTS ESTABLISHING RULES AND METHODS OF RESEARCH (TESTS) AND MEASUREMENTS	OBJECT NAME	RCPEA 2	CN code EAEU	TARGET PARAMETER	DETECTION RANGE
1. Product tests (research)						
1.1.	GOST 32484.1, cl. 5.3; Physical-mechanical and other methods of research (tests) to determine the physical and mechanical properties	Fasteners and fixing screws (high-strength bolt kits);	25.94	–	Ultimate tensile strength	– 300 to 1300 (MPa)
					Test load stress	– 220 to 970 (MPa)
					Contraction	– 0.5 to 75 (%)
					Elongation	– 0.5 to 75 (%)
					Strength when tested on wedge ring	– 100 to 1100 (MPa)

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1.1.					<table border="1"> <tr> <td data-bbox="1440 323 1787 387">Brinell hardness</td> <td data-bbox="1787 323 2085 387">– 115 to 450 (HB)</td> </tr> <tr> <td data-bbox="1440 387 1787 451">Vickers hardness</td> <td data-bbox="1787 387 2085 451">– 120 to 535 (HV)</td> </tr> <tr> <td data-bbox="1440 451 1787 515">Impact strength</td> <td data-bbox="1787 451 2085 515">– 3.75 to 500 (J/cm<sup>2</sup>)</td> </tr> <tr> <td data-bbox="1440 515 1787 579">Yield offset</td> <td data-bbox="1787 515 2085 579">– 100 to 1100 (MPa)</td> </tr> </table>	Brinell hardness	– 115 to 450 (HB)	Vickers hardness	– 120 to 535 (HV)	Impact strength	– 3.75 to 500 (J/cm <sup>2</sup> )	Yield offset	– 100 to 1100 (MPa)	
Brinell hardness	– 115 to 450 (HB)													
Vickers hardness	– 120 to 535 (HV)													
Impact strength	– 3.75 to 500 (J/cm <sup>2</sup> )													
Yield offset	– 100 to 1100 (MPa)													
1.2.	GOST ISO 898-1, cl. 9.10; Microscopy; other methods of microscopy	Fasteners and fixing screws;	25.94	–	Case depth	– 0 to 5 (mm)								
1.3.	GOST R 4967, method B; Microscopy; optical method	Steel (rolled and forged);	24.10.2	–	number of fields with inclusions of each type and each score	Without range indication: –								
1.4.	TU 14-3P-197-2001, Appendix B; Other researches (tests); Methods of other researches (tests)	Pipes (seamless, corrosion- resistant steel);	32.20.13.161	–	resistance to intergranular corrosion	resistant/unresistant – –								

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1.4.						
1.5.	GOST 11701; Physical-mechanical and other methods of research (tests) to determine the physical and mechanical properties	Steel;	24.10.2	–	Percent reduction of area	– 0.5 to 75 (%)
1.6.	GOST 9583, cl. 4.4a; Physical-mechanical and other methods of research (tests) to determine the physical and mechanical properties	Cast iron pipes (pressure, bell-mouth);	24.51.20.110	–	bending strength	– 100 to 500 (MPa)
1.7.	GOST 1579, cl. 2–7; Physical-mechanical and other methods of research (tests) to determine the physical and mechanical properties	Wire, chains and springs (wire);	25.93	–	Bends to failure	– 2 to 50

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1.8.	GOST 10180, cl. 7, 8; Physical and mechanical; strength	Refractory concretes;	23.20.13.130	-	Compressive strength	- 100 to 500 (MPa)
1.9.	GOST 10992, cl. 6, 7; Physical and mechanical; strength	Reinforcing steel (reinforcing and embedded products, their welded, knitted and mechanical connections);	24.10.62.210	-	Ultimate tensile strength	- 320 to 1050 (MPa)
					Point of fracture	Without range indication: -
					Breaking stress	- 500 to 1000 (MPa)
					Shear test stress	- 20 to 500 (kN)
					Shear breaking load	- 350 to 1000 (MPa)
					Breaking force	- 100 to 200 (kN)
1.10.	RD 03-495; Other researches (tests); methods of other researches (tests) without specification	Construction metal structures and parts;	25.11	-	Maximum defect size	- 0,1 to 150 (mm)

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1.11.	RD 50-672; Other researches (tests); methods of other researches (tests) without specification	Basic iron and steel products;	24.10.1	–	Type and characteristics of the fracture	Without range indication: –
1.12.	GOST 16093, cl. 4–11; Other researches (tests); methods of other researches (tests) without specification	Fasteners and fixing screws;	25.94	–	Thread diameter	– 1 to 500 (mm)
					Surface defects	Without range indication: –
					Thread angle	– 50 to 70 (...°)
					Surface roughness (Ra)	– 0.4 to 12.5 (µm)
1.13.	ASTM A956, cl. 1–16; Physical and mechanical; hardness	Steel (steel products);	24.10.2	–	Leeb hardness HL	– 1 to 299 901 to 999
1.14.	ISO 10113, cl. 3–9; Other researches (tests); methods of other researches (tests) without specification	Steel (sheets and plates);	24.10.2	–	Calculation rate: plastic strain ratio (anisotropy)	Without range indication: –

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1.14.						
1.15.	GOST 10275, cl. 4–8; Physical-mechanical and other methods of research (tests) to determine the physical and mechanical properties	Steel (sheets and strips);	24.10.2	–	Calculation rate: strain-hardening coefficient of tensile strength of rolled products at room temperature	Without range indication: –
1.16.	ASTM G48, method B; Other researches (tests); methods of other researches (tests) without specification	Steel (stainless steels and alloys);	24.10.2	–	Crevice corrosion resistance: presence and depth of crevice corrosion Crevice corrosion resistance: corrosion rate	– 0 to 3 (mm) – 0.5 to 10 (g/m <sup>2</sup> )
1.17.	ASTM E45, method D; Microscopy; optical method	Steel (forged and rolled billets);	24.10.2	–	number of fields with inclusions of each type and each score	Without range indication: –
1.18.	ASME Section IX, Div. QW 462; Other researches (tests);	Steel (welded joints and weld metal);	24.10.2	–	Ultimate tensile strength	– 100 to 2000 (MPa)

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1.18.	methods of other researches (tests) without specification				<table border="1"> <tr> <td data-bbox="1440 323 1787 387">Detection of defects when bending to a specified angle</td> <td data-bbox="1787 323 2085 387">presence/absence of –</td> </tr> <tr> <td data-bbox="1440 387 1787 475">Fracture location (base metal/weld metal/heat-affected zone)</td> <td data-bbox="1787 387 2085 475">Without range indication: –</td> </tr> <tr> <td data-bbox="1440 475 1787 539">Metallographic tests of welded joints and claddings (defects)</td> <td data-bbox="1787 475 2085 539">presence/absence of –</td> </tr> <tr> <td data-bbox="1440 539 1787 603">Percent reduction of area</td> <td data-bbox="1787 539 2085 603">– 0.5 to 75 (%)</td> </tr> <tr> <td data-bbox="1440 603 1787 667">Elongation after rupture</td> <td data-bbox="1787 603 2085 667">– 0.5 to 75 (%)</td> </tr> <tr> <td data-bbox="1440 667 1787 730">Yield offset</td> <td data-bbox="1787 667 2085 730">– 100 to 1800 (MPa)</td> </tr> <tr> <td data-bbox="1440 730 1787 794">Physical yield limit</td> <td data-bbox="1787 730 2085 794">– 100 to 1800 (MPa)</td> </tr> </table>	Detection of defects when bending to a specified angle	presence/absence of –	Fracture location (base metal/weld metal/heat-affected zone)	Without range indication: –	Metallographic tests of welded joints and claddings (defects)	presence/absence of –	Percent reduction of area	– 0.5 to 75 (%)	Elongation after rupture	– 0.5 to 75 (%)	Yield offset	– 100 to 1800 (MPa)	Physical yield limit	– 100 to 1800 (MPa)	
Detection of defects when bending to a specified angle	presence/absence of –																			
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Yield offset	– 100 to 1800 (MPa)																			
Physical yield limit	– 100 to 1800 (MPa)																			
1.19.	ASTM E837; Other researches (tests); methods of other researches (tests) without specification	Steel (forged and rolled billets);	24.10.2	–	Residual stresses	– –500 to 500 (MPa)														



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1.20.	SEP 1670; Other researches (tests); methods of other researches (tests) without specification	Steel;	24.10.2	-	Brittleness transition temperature (FATT)	- -196 to 200 (°C)
1.21.	ASTM G146; Other researches (tests); methods of other researches (tests) without specification	Steel (bimetallic stainless steels and alloys);	24.10.2	-	Detachments associated with hydrogen exposure	presence/absence of -
1.22.	GOST R ISO 22309; Microscopy; scanning probe method	Iron, cast iron, steel and ferroalloys; other non-ferrous metals;	24.10; 24.45	-	Mass fraction of aluminum (Al)	- 1 to 100 (%)
					Mass fraction of vanadium (V)	- 1 to 100 (%)
					Mass fraction of iron (Fe)	- 1 to 100 (%)
					Mass fraction of calcium (Ca)	- 1 to 100 (%)
					Mass fraction of cobalt (Co)	- 1 to 100 (%)
					Mass fraction of silicon (Si)	- 1 to 100 (%)

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1.22.					<table border="1"> <tr> <td data-bbox="1440 323 1787 387">Mass fraction of magnesium (Mg)</td> <td data-bbox="1787 323 2080 387">– 1 to 100 (%)</td> </tr> <tr> <td data-bbox="1440 387 1787 451">Mass fraction of manganese (Mn)</td> <td data-bbox="1787 387 2080 451">– 1 to 100 (%)</td> </tr> <tr> <td data-bbox="1440 451 1787 515">Mass fraction of copper (Cu)</td> <td data-bbox="1787 451 2080 515">– 1 to 100 (%)</td> </tr> <tr> <td data-bbox="1440 515 1787 579">Mass fraction of molybdenum (Mo)</td> <td data-bbox="1787 515 2080 579">– 1 to 100 (%)</td> </tr> <tr> <td data-bbox="1440 579 1787 643">Mass fraction of nickel (Ni)</td> <td data-bbox="1787 579 2080 643">– 1 to 100 (%)</td> </tr> <tr> <td data-bbox="1440 643 1787 707">Mass fraction of niobium (Nb)</td> <td data-bbox="1787 643 2080 707">– 1 to 100 (%)</td> </tr> <tr> <td data-bbox="1440 707 1787 770">Mass fraction of sulfur (S)</td> <td data-bbox="1787 707 2080 770">– 1 to 100 (%)</td> </tr> <tr> <td data-bbox="1440 770 1787 834">Mass fraction of titanium (Ti)</td> <td data-bbox="1787 770 2080 834">– 1 to 100 (%)</td> </tr> <tr> <td data-bbox="1440 834 1787 898">Mass fraction of chromium (Cr)</td> <td data-bbox="1787 834 2080 898">– 1 to 100 (%)</td> </tr> <tr> <td data-bbox="1440 898 1787 962">Mass fraction of zinc (Zn)</td> <td data-bbox="1787 898 2080 962">– 1 to 100 (%)</td> </tr> </table>	Mass fraction of magnesium (Mg)	– 1 to 100 (%)	Mass fraction of manganese (Mn)	– 1 to 100 (%)	Mass fraction of copper (Cu)	– 1 to 100 (%)	Mass fraction of molybdenum (Mo)	– 1 to 100 (%)	Mass fraction of nickel (Ni)	– 1 to 100 (%)	Mass fraction of niobium (Nb)	– 1 to 100 (%)	Mass fraction of sulfur (S)	– 1 to 100 (%)	Mass fraction of titanium (Ti)	– 1 to 100 (%)	Mass fraction of chromium (Cr)	– 1 to 100 (%)	Mass fraction of zinc (Zn)	– 1 to 100 (%)	
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1.23.	GOST R 54153; Chemical tests, physical-chemical tests; atomic emission spectrometry (AES)	Steel;	24.10.2	–	Mass fraction of acid soluble aluminum (a.c.)	– 0.002 to 0.20 (%)
1.24.	GOST 14250.4; Chemical tests, physical-chemical tests; photometric	Ferrotitanium;	24.10.12.220	–	Mass fraction of phosphorus (P)	– 0.02 to 0.2 (%)
1.25.	GOST 13217.5, cl. 3; Chemical tests, physical-chemical tests; photometric	Ferrovanadium;	24.10.12.170	–	Mass fraction of phosphorus (P)	– 0.01 to 0.24 (%)
1.26.	GOST 14250.13, cl. 2; Chemical tests, physical-chemical tests; photometric	Ferrotitanium;	24.10.12.220	–	Mass fraction of manganese (Mn)	– 0.05 to 2.0 (%)

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1.27.	GOST 14250.13, cl. 3; Chemical tests, physical- chemical tests; titrimetric (volumetric)	Ferrotitanium;	24.10.12.220	–	Mass fraction of manganese (Mn)	– 0.5 to 2.0 (%)
1.28.	GOST 13217.6, cl. 2; Chemical tests, physical- chemical tests; photometric	Ferrovanadium;	24.10.12.170	–	Mass fraction of manganese (Mn)	– 0.1 to 7 (%)
1.29.	GOST 14250.7; Chemical tests, physical-chemical tests; gravimetric (weight)	Ferrotitanium;	24.10.12.220	–	Mass fraction of silicon (Si)	– 0.2 to 40 (%)
1.30.	GOST 13217.4, cl. 2; Chemical tests, physical- chemical tests; gravimetric (weight)	Ferrovanadium;	24.10.12.170	–	Mass fraction of silicon (Si)	– 0.2 to 4.0 (%)

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1.31.	GOST 14250.12, cl. 2; Chemical tests, physical- chemical tests; photometric	Ferrotitanium;	24.10.12.220	-	Mass fraction of chromium (Cr)	- 0.05 to 0.2 (%)
1.32.	GOST 14250.12, cl.3; Chemical tests, physical- chemical tests; titrimetric (volumetric)	Ferrotitanium;	24.10.12.220	-	Mass fraction of chromium (Cr)	- 0.2 to 2.0 (%)
1.33.	GOST 13217.1, cl.3; Chemical tests, physical- chemical tests; titrimetric (volumetric)	Ferrovanadium;	24.10.12.170	-	Mass fraction of vanadium (V)	- 30 to 85 (%)
1.34.	GOST 27799; Chemical tests, physical-chemical tests; gravimetric (weight)	Aluminum oxide (alumina) other than synthetic corundum;	24.42.12	-	Mass fraction of moisture	- 0.01 to 4.0 (%)

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1.35.	GOST 27800; Chemical tests, physical-chemical tests; gravimetric (weight)	Aluminum oxide (alumina) other than synthetic corundum;	24.42.12	-	Mass loss ignition	- 0.01 to 2.0 (%)
1.36.	GOST 22974.2, cl. 4; Chemical tests, physical-chemical tests; gravimetric (weight)	Fluxes (fused welded);	20.59.56.120	-	Mass fraction of silicon oxide	- 10 to 50 (%)
1.37.	GOST 22974.2; cl. 5; Chemical tests, physical-chemical tests; photometric	Fluxes (fused welded);	20.59.56.120	-	Mass fraction of silicon oxide	- 5.0 to 20.0 (%)
1.38.	GOST 22974.6, cl. 4; Chemical tests, physical-chemical tests; photometric	Fluxes (fused welded);	20.59.56.120	-	Mass fraction of iron oxide	- 0.1 to 10.0 (%)

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1.39.	GOST 22974.6, cl. 5; Chemical tests, physical- chemical tests; titrimetric (volumetric)	Fluxes (fused welded);	20.59.56.120	-	Mass fraction of iron oxide	- 0.5 to 20 (%)
1.40.	GOST 22974.7; Chemical tests, physical-chemical tests; photometric	Fluxes (fused welded);	20.59.56.120	-	Mass fraction of phosphorus (P)	- 0.01 to 0.2 (%)
1.41.	GOST 22974.3; cl. 5; Chemical tests, physical-chemical tests; photometric	Fluxes (fused welded);	20.59.56.120	-	Mass fraction of manganese oxide	- 0.1 to 10.0 (%)
1.42.	GOST 22974.4; Chemical tests, physical-chemical tests; titrimetric (volumetric)	Fluxes (fused welded);	20.59.56.120	-	Mass fraction of aluminum oxide	- 1 to 50 (%)

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1.43.	GOST 22974.5, cl. 4, 5; Chemical tests, physical- chemical tests; titrimetric (volumetric)	Fluxes (fused welded);	20.59.56.120	–	Mass fraction of calcium oxide	– 1 to 60 (%)
					Mass fraction of magnesium oxide	– 0.5 to 20 (%)
1.44.	GOST 22974.9; cl. 4; Chemical tests, physical-chemical tests; photometric	Fluxes (fused welded);	20.59.56.120	–	Mass fraction of titanium oxide	– 0.5 to 10.0 (%)
1.45.	GOST 6709, cl. 3.16, 3.17; Other researches (tests); methods of other researches (tests) without specification	Distilled water;	20.13.52.120	–	pH value	– 0 to 14
					Specific conductivity	– 0 to 2 (Sm/m) 0 to 20000 (μSm/cm)
1.46.	GOST 29234.2, cl. 2; Chemical tests, physical-chemical tests; gravimetric (weight)	Silica sands (molding);	08.12.11.120	–	Mass fraction of silicon oxide	– 90 to 99 (%)



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1.47.	GOST 29234.13; Chemical tests, physical-chemical tests; gravimetric (weight)	Silica sands (molding);	08.12.11.120	-	Mass loss ignition	- 0.1 to 5.0 (%)
1.48.	ASTM E350; Chemical tests, physical-chemical tests; photometric	Iron, cast iron, steel and ferroalloys (malleable iron, carbon and low-alloy steel, silicon steel, pure iron);	24.10	-	Mass fraction of cobalt (Co)	- 0.01 to 0.30 (%)
					Mass fraction of silicon (Si)	- 0.05 to 3.5 (%)
					Mass fraction of manganese (Mn)	- 0.10 to 2.50 (%)
					Mass fraction of nickel (Ni)	- 0.1 to 5.00 (%)
					Mass fraction of titanium (Ti)	- 0.025 to 0.30 (%)
					Mass fraction of phosphorus (P)	- 0.003 to 0.09 (%)
					Mass fraction of chromium (Cr)	- 0.05 to 3.99 (%)

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1.49.	ONORM EN 10315; Chemical tests, physical- chemical tests; X-ray spectral	Steel (high-alloy);	24.10.2	–	Mass fraction of vanadium (V)	– 0.015 to 0.15 (%)
					Mass fraction of cobalt (Co)	– 0.015 to 0.30 (%)
					Mass fraction of silicon (Si)	– 0.05 to 1.5 (%)
					Mass fraction of manganese (Mn)	– 0.05 to 5.0 (%)
					Mass fraction of copper (Cu)	– 0.02 to 1.5 (%)
					Mass fraction of molybdenum (Mo)	– 0.1 to 6.5 (%)
					Mass fraction of nickel (Ni)	– 0.1 to 30 (%)
					Mass fraction of niobium (Nb)	– 0.05 to 1.0 (%)
					Mass fraction of titanium (Ti)	– 0.015 to 0.50 (%)
					Mass fraction of phosphorus (P)	– 0.005 to 0.035 (%)
					Mass fraction of chromium (Cr)	– 10 to 25 (%)

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1.50.	ONORM EN ISO 9556; Chemical tests, physical- chemical tests; infrared spectroscopy (spectrophotometric)	Iron, cast iron, steel and ferroalloys (steel, cast iron);	24.10	-	Mass fraction of carbon (C)	- 0.003 to 4.5 (%)
1.51.	ONORM EN 24935; Chemical tests, physical- chemical tests; infrared spectroscopy (spectrophotometric)	Iron, cast iron, steel and ferroalloys (steel, cast iron);	24.10	-	Mass fraction of sulfur (S)	- 0.002 to 0.10 (%)
1.52.	GOST 4333; Other researches (tests); methods of other researches (tests) without specification	Petroleum products;	19.20	-	Open cup flash point	- 79 to 400 (°C)
1.53.	GOST 3900, cl. 1; Other researches (tests); methods of other researches (tests) without specification	Petroleum products;	19.20	-	Density at 20 °C	- 650 to 1070 (g/cm <sup>3</sup> )

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1.53.						
1.54.	GOST 2477; Other researches (tests); methods of other researches (tests) without specification	Petroleum products;	19.20	–	Mass fraction of water	absence/trace/presence 0.03 to 10 (%)
1.55.	GOST 6307; Other researches (tests); methods of other researches (tests) without specification	Petroleum products;	19.20	–	pH of the aqueous extract	– 0 to 14
1.56.	GOST 1461; Other researches (tests); methods of other researches (tests) without specification	Petroleum; Petroleum products;	06.10; 19.20	–	Ash content	presence/absence 0.002 to 2 (%)
1.57.	GOST 33; Chemical tests, physical-chemical tests; viscosimetric	Petroleum; Petroleum products;	06.10; 19.20	–	Kinematic viscosity	0.6 to 1000 (mm <sup>2</sup> /s)

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1.57.						
1.58.	GOST 25371; metod A; Chemical tests, physical- chemical tests; viscosimetric	Petroleum products;	19.20	–	Calculation rate: viscosity index	Without range indication: –
1.59.	GOST 6370; Chemical tests, physical-chemical tests; gravimetric (weight)	Petroleum; Petroleum products (and additives);	06.10; 19.20	–	Mass fraction of solid particles	– 0.006 to 1.0 (%)
					Solid particles	presence/absence of –
1.60.	GOST 5985; Chemical tests, physical-chemical tests; titrimetric (volumetric)	Petroleum products;	19.20	–	Acid number	– 0 to 1.0 (mg KOH/g)
					Acidity	– 0 to 1.0 (mg KOH/100 cm <sup>3</sup> )

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1.61.	GOST 6356; Other researches (tests); methods of other researches (tests) without specification	Petroleum products;	19.20	-	Closed cup flash point	- 0 to 400 (°C)
1.62.	GOST 19296; Chemical tests, physical-chemical tests; colorimetric	Mineral lubricating oils;	19.20.29.100	-	Alcali test	- 1 to 2 (point)
1.63.	GOST 18995.1, cl. 1; Other researches (tests); methods of other researches (tests) without specification	Other chemical products (liquid);	20.59.5	-	Density at 20°C	- 0.650 to 0.1070 (g/cm <sup>3</sup> )
1.64.	GOST 3639, cl. 2.1; Chemical tests, physical-chemical tests; areometric	Non-food alcohol-containing solutions (alcohol water mixtures);	20.59.59.200	-	Alcohol concentration	- 90 to 100 (%)

No.	DOCUMENTS ESTABLISHING RULES AND METHODS OF RESEARCH (TESTS) AND MEASUREMENTS	OBJECT NAME	RCPEA 2	CN code EAEU	TARGET PARAMETER	DETECTION RANGE
1.65.	GOST 9805, cl. 4.2, 4.12; Chemical tests, physical- chemical tests; optic	Isopropyl alcohol (propane-2-ol);	20.14.22.113	-	Physical form Water miscibility	Without range indication: - withstands/not withstands -

No.	DOCUMENTS ESTABLISHING RULES AND METHODS OF RESEARCH (TESTS) AND MEASUREMENTS	OBJECT NAME	RCPEA 2	CN code EAEU	TARGET PARAMETER	DETECTION RANGE
1. Product tests (research)						
1.1.	GOST R 54153; Chemical tests, physical-chemical tests; atomic emission spectrometry (AES)	Steel;	24.10.2	-	Mass fraction of magnesium (Mg)	- 0.001 to 0.20 (%)

CEO

Title of authorized person

Electronically signed

Signature of authorized person

T.I. Titova

Initials, last name of the authorized person