

Accreditation field of the testing laboratory (center)
 Laboratory of destructive and non-destructive control methods 353
 of Central Design Bureau of Machine Building Joint-Stock Company

testing laboratory (center) denomination

1. 7, bldg., 2 Profsoyuznaya St., the town of Sosnovy Bor, Leningrad Oblast 188540
 (production building 254, letter V, V1, rooms 72-73, 76, 80, 81-84; south of building 2, prem. 1N - room 1-6)
 2. Kirov Plant 47, letter L, Pr. Stachek (prem. 1N - rooms 29-31, prem. 35N – room 9) St. Petersburg 198097

address of the activity site

For conformity to the requirements of
 GOST ISO/IEC 17025-2019 General Requirements for the Competence of Testing and Calibrating Laboratories

denomination and details of the interstate or national standard establishing general requirements for the competence of testing laboratories

Item №	Documents establishing rules and research (test) and measurement methods	Facility denomination	ARCP TEA Code 2	EAEU CN Code	Characteristic to be determined (indicator)	Measurement range
1	2	3	4	5	6	7
1. 7, bldg., 2 Profsoyuznaya St., the town of Sosnovy Bor, Leningrad Oblast 188540 (production building 254, letter V, V1, rooms 72-73, 76, 80, 81-84; south of building 2, prem. 1H - room 1-6)						
1	GOST 10006	Metal seamless, welded, bimetal pipes	-	-	Temporary resistance Yield strength Relative elongation Relative reduction	50-1000 (N/mm ²) (5-100 kgf/mm ²) 50-1000 (N/mm ²) (5-100 kgf/mm ²) 1-90 (%) 1-90 (%)
2	GOST 9454	Ferrous and nonferrous metals and alloys	-	-	Impact resistance at room temperature	5-250 (J/cm ²)
3	GOST 8695	Metal seamless and welded pipes (with an outer diameter of not more than 400 mm and wall thickness of not more than 15% of the pipe outer diameter)	-	-	Presence of visually discovered cracks or ruptures with a metal sheen on the outer and inner surfaces	Discovered/not discovered
4	GOST 8694	Round section metal seamless and welded pipes (with a wall thickness of not more than 9.0 mm and diameter of not more than 150 mm)				

1	2	3	4	5	6	7
5	GOST 1497	Ferrous and nonferrous metals and products thereof (with a nominal diameter and the least cross-section size of 3.0 mm)	-	-	Temporary resistance	50-1100 (N/mm ²) (5-110 kgf/mm ²)
6	GOST 9651		Conditional yield strength	50-1100 (N/mm ²) (5-110 kgf/mm ²)		
7	GOST 6996 (section 4, section 5, section 7, section 8, section 9)	Deposited metal; weld joints	-	-	Relative elongation after rupture	1-90 (%)
					Relative cross-section reduction after rupture	1-90 (%)
8	GOST 9012	Metal	-	-	Temporary resistance	50-1000 (MPa) (5-100 kgf/mm ²)
9	GOST 9013				Conditional yield strength	50-1000 (MPa) (5-100 kgf/mm ²)
10	GOST 2999				Relative elongation after rupture	1-90 (%)
					Relative cross-section reduction after rupture	1-90 (%)
					Impact resistance	5-90 (J/cm ²)
					Cracks (for bending test)	Presence/absence
					Crack size	1-10 (mm)
8	GOST 9012	Metal	-	-	Brinell hardness	8-400 (HB)
9	GOST 9013				Rockwell hardness	20-70 (HRC)
10	GOST 2999				Vickers hardness	50-1500(HV)
11	GOST 24507	Forgings of ferrous and nonferrous metals	-	-	Discontinuities	Discovered/not discovered
12	RNAE G-7-014 (p. 1.5.1; 6.19; 6.20)	Forgings, bar iron, casting, sheets, pipes	-	-	Number of discontinuities and their equivalent size	Permissible/non-permissible
					Conditional length	Presence/absence
13	GOST R 50.05.05 (p. 5.4, 7.1.17, 7.3.10, 7.3.16, 7.6.3, 7.6.4)	Forgings, bar iron, casting, sheets, pipes	-	-	Discontinuities	Discovered/not discovered
					Number of discontinuities and their equivalent size	Permissible/non-permissible
					Conditional length	Presence/absence
14	RNAE G -7-030 (p. 4.4.2.5; 4.4.2.5.1; 4.4.2.7)	Weld joints and claddings	-	-	Discontinuities	Discovered/not discovered
					Number of discontinuities and their equivalent size	Permissible/non-permissible
					Conditional length	Presence/absence

1	2	3	4	5	6	7
15	GOST R 50.05.02 (p. 5.1.13, 7.3.1.1, 7.3.1.10, B4.5.1)	Weld joints and claddings	-	-	Discontinuities Number of discontinuities and their equivalent size Conditional length	Discovered/not discovered Permissible/non- permissible Presence/absence
16	RNAE G -7-031 (p. 7.3)	Mono-metals, bimetals, anticorrosive claddings	-	-	Wall thickness, claddings (ultrasonic thickness measurement)	1-1000 (mm)
17	GOST R 50.05.03 (p. 7.2,7.3, 7.4, 7.5)	Mono-metals, bimetals, anticorrosive claddings	-	-	Wall thickness, claddings (ultrasonic thickness measurement)	1-1000 (mm)
18	RNAE G-7-017	Weld joints, claddings	-	-	Internal defects and discontinuities Sizes of cracks (T), poor fusions (H), slag (III), pores (II), accumulations (C), undercuts (Пдр), tungsten (B)	Discovered/not discovered 0.1-200 (mm)
19	GOST R 50.05.07	Weld joints, fused coatings				
20	GOST 7512	Weld joints				
21	RB (Safety Guide)-090-14	Base metal, weld joints and deposited surfaces of the equipment and pipelines of nuclear power units	-	-	Discontinuities coming to the surface Number of discontinuities Sizes	Discovered/not discovered Permissible/non- permissible 0.2-10 (mm)
22	GOST R 50.05.09	Base metal, weld joints and deposited surfaces of the equipment and pipelines of nuclear power units	-	-	Discontinuities coming to the surface Number of discontinuities Sizes	Discovered/not discovered Permissible/non- permissible 0.2-10 (mm)
23	RNAE G -7-016	Semi-finished products, parts, assembly units, weld joints, welded surfaces	-	-	Surface discontinuities Linear dimensions Angular dimensions Radius Roughness	0.1-20 (mm) 0.01-10.00 (mm) 0-360 (°) 0.1-600 (mm) Ra 0.2-12.5
24	RB-089-14	Base metal, semi-finished products, parts, assembly units, weld joints, claddings				
25	GOST R 50.05.08	Weld joints and deposited surfaces				

1	2	3	4	5	6	7
26	GOST18895	Metal products of steel	-	-	Carbon	0.010-2.0 (%)
					Sulfur	0.002-0.20 (%)
					Phosphorus	0.002-0.20 (%)
					Silicon	0.010-2.5 (%)
					Manganese	0.050-5.0 (%)
					Chrome	0.010-10.0 (%)
					Nickel	0.010-10.0 (%)
					Cobalt	0.010-5.0 (%)
					Copper	0.010-2.0 (%)
					Aluminum	0.05-2.0 (%)
					Molybdenum	0.010-5.0 (%)
					Tungsten	0.020-5.0 (%)
					Vanadium	0.005-5.0 (%)
					Titanium	0.005-2.0 (%)
Niobium	0.010-2.0 (%)					
27	GOST R 54153	Metal products of steel	-	-	Arsenic	0.005-0.20 (%)
					Carbon	0.002-3.0 (%)
					Phosphorus	0.001-0.20 (%)
					Silicon	0.001-0.20 (%)
					Manganese	0.002-5.0 (%)
					Chrome	0.0005-35.0 (%)
					Nickel	0.001-35.0 (%)
					Cobalt	0.001-45.0 (%)
					Copper	0.0005-20.0 (%)
					Molybdenum	0.0002-10.0 (%)
					Tungsten	0.002-20 (%)
					Vanadium	0.001-10.0 (%)
					Titanium	0.001-5.0 (%)
					Niobium	0.001-3.0 (%)

1	2	3	4	5	6	7
28	ISO 17636-1	Weld joints of sheets and pipes	-	-	Internal defects and discontinuities Sizes of the pore (2011), slag inclusion (301), poor fusions/poor penetrations (401), longitudinal cracks (101), transverse cracks (102), metal inclusions (304)	Discovered/not discovered 0.1-200 (mm)
29	ISO 22825	Weld joints and claddings	-	-	Discontinuities Number of discontinuities and their equivalent size Conditional length	Discovered/not discovered Permissible/non-permissible Presence/absence
30	ISO 17637	Weld joints, products prepared for welding	-	-	Surface discontinuities Linear dimensions Angular dimensions Radius Roughness	0.1-20 (mm) 0.01-10.00 (mm) 0-360 (°) 0.1-600 (mm) Ra 0.2-12.5
31	ISO 3452-1	Base metal, weld joints and deposited surfaces			Non-uniformities coming to the surface Number of discontinuities Dimensions	Discovered/not discovered Permissible/non-permissible 0.2-10 (mm)
2. Kirov Plant 47, letter JI, Pr. Stachek (area 1H - rooms 29-31, area 35H – room 9) St. Petersburg 198097						
32	RNAE G -7-016	Semi-finished products, parts, assembly units, weld joints, claddings	-	-	Surface discontinuities Linear dimensions Angular dimensions Radius Roughness	0.1-20 (mm) 0.01-10,000 (mm) 0-360 (°) 0.1-600 (mm) Ra 0.2-12.5
33	RB-089-14	Base metal, semi-finished products, parts, assembly units, weld joints, claddings				
34	GOST R 50.05.08	Weld joints and deposited surfaces				

1	2	3	4	5	6	7
35	ISO 17637	Weld joints, products prepared for welding	-	-	Surface discontinuities Linear dimensions Angular dimensions Radius Roughness	0.1-20 (mm) 0.01-10.00 (mm) 0-360(°) 0.1-600 (mm) Ra 0.2-12.5
36	RNAE G -7-019 (p.4.2.1, 4.2.1.1-4.2.1.6, 4.2.6)	Weld joints and Base metal	-	-	Amount of leakage	Conformity/nonconformity of the amount of leakage to the air-tightness class (2-5)
37	GOST R 50.05.01 (7.2.2, 7.2.7.1-7.2.7.2)	Base metal of weld joints and fused coatings of the equipment and pipelines of nuclear power units				

CDBMB JSC Deputy Quality Director

V.I. Malyshev