

Test Laboratory/Center Accreditation Scope

Metalltest Test Center

I.P. Bardin Central Research Institute, Federal State Unitary Enterprise

test laboratory/center name

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business address

Item No.	Documents Regulating the Procedures and Methods of Analyses/Tests, and Measurements	Test Subject	Code per the Classifier of Products by Type of Economic Activity (OKPD 2)	Code per the Eurasian Economic Union Trade Import and Export Classification	Tested Property/Parameter	Measurement Range
1	2	3	4	5	6	7
Chemical Analysis						
1	GOST 9853.1	Titanium Sponge	—	—	Weight percentage N	0.005–0.5 %
2	GOST 9853.5, para. 5	Titanium Sponge	—	—	Weight percentage O	0.005–0.36 %
3	GOST 13938.13, para. 2	Electrolytic copper, cast, deformed	—	—	Weight percentage O	0.0003–0.5 %

1	2	3	4	5	6	7
4	GOST 14338.1, para. 2	Metallic molybdenum	—	—	Weight percentage C	0.0005–0.5 %
5	GOST 14338.2	Metallic molybdenum	—	—	Weight percentage S	0.0005–0.05 %
6	GOST 14338.3	Metallic molybdenum	—	—	Weight percentage P	0.0002–0.015 %
7	GOST 14638.3	Ferrotungsten	—	—	Weight percentage P	0.01–0.15 %
8	GOST 14638.4	Ferrotungsten	—	—	Weight percentage Si	0.15–3.0 %
9	GOST 14638.6	Ferrotungsten	—	—	Weight percentage Al	0.5–6.0 %
10	GOST 14638.8	Ferrotungsten	—	—	Weight percentage Mo	0.10–8 %
11	GOST 14638.9, para. 2	Ferrotungsten	—	—	Weight percentage Cu	0.01–0.4 %
12	GOST 14638.9, para. 4	Ferrotungsten	—	—	Weight percentage Cu	0.01–0.4 %
13	GOST 14918, para. 5.3	Hot-rolled sheet steel and coiled steel, hot-dip galvanized in continuous hot-dip galvaniz- ing lines	—	—	Zink coating weight	0–500 g
14	GOST 16591.5	Ferrosilicon manganese	—	—	Weight percentage P	0.025–0.7 %
15	GOST 17818.1	Cryptocrystalline graphite and crystalline graphite	—	—	Weight percentage moisture	up to 5.0 %
16	GOST 17818.3	Cryptocrystalline graphite and crystalline graphite	—	—	Weight percentage volatile matter	0.05% and above
17	GOST 17818.4	Cryptocrystalline graphite and crystalline graphite	—	—	Weight percentage ash residue	up to 25 %
18	GOST 17818.6	Cryptocrystalline graphite and crystalline graphite	—	—	Concentration of aqueous slurry and aqueous extract hy- drogen ions, pH	0–14
19	GOST 17818.17	Cryptocrystalline graphite and crystalline graphite	—	—	Weight percentage S	0–1 %

1	2	3	4	5	6	7
20	GOST 17818.18	Cryptocrystalline graphite and crystalline graphite	—	—	Weight percentage Chloride ions	up to 0.1 %
21	GOST 18895	Carbon steel, low-alloy, alloy and high-alloy	—	—	Weight percentage Cu	0.010–2.0 %
					Weight percentage V	0.005–2.0 %
22	GOST 20068.4	Bronze, grade БpAЖ9-4 (BrAZh9-4)	—	—	Weight percentage Al	7.0–12.0 %
23	GOST 22720.1	Rare metals and rare metal based alloys	—	—	Weight percentage O	0.00005–0.2 %
					Weight percentage H	0.0002–0.01 %
					Weight percentage C	0.00004–0.03 %
					Weight percentage N	0.00004–0.03 %
24	GOST 24956	Titanium and titanium alloys	—	—	Weight percentage H	0.0006–0.05 %
25	GOST 27417	Metal powders	—	—	Weight percentage O	up to 2 %
26	GOST 27809	Cast iron, steels	—	—	Weight percentage Si	0.002–5.0 %
					Weight percentage Mn	0.01–5.0 %
					Weight percentage Cr	0.01–5.0 %
					Weight percentage Ni	0.01–5.0 %
					Weight percentage Al	0.002–2.0 %
					Weight percentage Ti	0.001–1.0 %
					Weight percentage Cu	0.01–2.0 %
					Weight percentage Mo	0.01–5.0 %

1	2	3	4	5	6	7
					Weight percentage W	0.02–5.0 %
					Weight percentage V	0.01–1.0 %
					Weight percentage Mg	0.005–0.1 %
					Weight percentage B	0.001–0.1 %
					Weight percentage Ce	0.01–0.1 %
					Weight percentage Nb	0.01–1.0 %
					Weight percentage Zr	0.005–0.2 %
					Weight percentage As	0.005–0.2 %
27	GOST 28033	Steel	—	—	Weight percentage Co	0.05–20.0 %
					Weight percentage Cr	0.05–35.0 %
					Weight percentage Cu	0.01–5.0 %
					Weight percentage Mn	0.05–20.0 %
					Weight percentage Mo	0.05–10.0 %
					Weight percentage Nb	0.01–2.0 %
					Weight percentage Ni	0.05–45.0 %
					Weight percentage P	0.002–0.20 %
					Weight percentage S	0.002–0.20 %
					Weight percentage Si	0.05–5.0 %
					Weight percentage Ti	0.01–5.0 %

1	2	3	4	5	6	7
					Weight percentage V	0.01–5.0 %
					Weight percentage W	0.05–20.0 %
28	GOST 28052	Titanium and titanium alloys	—	—	Weight percentage O	0.02–0.50 %
29	GOST 30608	Tine bronze	—	—	Weight percentage Al	0.01–0.1 %
					Weight percentage Fe	0.01–1.0 %
					Weight percentage Mn	0.01–0.5 %
					Weight percentage Ni	0.1–4.0 %
					Weight percentage P	0.01–2.0 %
					Weight percentage Pb	0.01–15.0 %
					Weight percentage S	0.01–0.1 %
					Weight percentage Sb	0.01–0.5 %
					Weight percentage Si	0.01–0.1 %
					Weight percentage Sn	1.0–15.0 %
					Weight percentage Zn	0.1–16.0 %
30	GOST 30609	Casting brass	—	—	Weight percentage Al	0.02–10.0 %
					Weight percentage As	0.02–0.1 %
					Weight percentage Bi	0.002–0.01 %
					Weight percentage Cu	50.0–85.0 %
					Weight percentage Fe	0.02–5.0 %

1	2	3	4	5	6	7
					Weight percentage Mn	0.05–5.0 %
					Weight percentage Ni	0.02–2.0 %
					Weight percentage P	0.02–0.2 %
					Weight percentage Pb	0.02–5.0 %
					Weight percentage Sb	0.02–0.5 %
					Weight percentage Si	0.05–5.0 %
					Weight percentage Sn	0.02–2.0 %
31	GOST R 50575 Appendix A	Zink coatings on round steel wire	—	—	Weight of zinc precipitated per area unit	0–500 g
32	GOST R 50575 Appendix B	Zink coatings on round steel wire	—	—	Weight of zinc precipitated per area unit – Gravimetric method	0–500 g
33	GOST R 50965	Aluminum and aluminum alloys	—	—	Weight percentage H	0.05–0.45 ppm
34	GOST R 52246 Appendix B	Steel sheets of low carbon steel with zinc, iron zinc, aluminum zinc and aluminum magnesium zinc coatings	—	—	Zink coating weight	—
35	GOST R 55080	Cast iron	—	—	Weight percentage Al	0.002–0.2 %
					Weight percentage Co	0.01–0.5 %
					Weight percentage Cr	0.01–35.0 %
					Weight percentage Cu	0.01–10.0 %
					Weight percentage Mg	0.001–0.10 %
					Weight percentage Mn	0.02–5.0 %
					Weight percentage Mo	0.001–5.0 %

1	2	3	4	5	6	7
					Weight percentage Ni	0.01–25.0 %
					Weight percentage P	0.005–2.0 %
					Weight percentage S	0.002–0.20 %
					Weight percentage Si	0.10–5.0 %
					Weight percentage Ti	0.001–0.5 %
					Weight percentage V	0.001–1.0 %
36	GOST R 58072, para. 4.3.3	Organic material coatings for steel wire	—	—	Density of material for organic coating	0–500 g
37	NDI 02.02.03	Cast iron	—	—	Weight percentage Al	0.002–0.2 %
					Weight percentage As	0.001–0.20 %
					Weight percentage B	0.0002–0.05 %
					Weight percentage C	0.2–5.0 %
					Weight percentage Ce	0.001–0.10 %
					Weight percentage Co	0.001–0.5 %
					Weight percentage Cr	0.01–35 %
					Weight percentage Cu	0.005–10.0 %
					Weight percentage Mg	0.001–0.2 %
					Weight percentage Mn	0.02–10.0 %
					Weight percentage Mo	0.001–5.0 %

1	2	3	4	5	6	7
					Weight percentage Nb	0.002–1.0 %
					Weight percentage Ni	0.01–25 %
					Weight percentage P	0.005–2.0 %
					Weight percentage Pb	0.002–0.05 %
					Weight percentage S	0.002–0.20 %
					Weight percentage Sb	0.001–0.20 %
					Weight percentage Si	0.10–5.0 %
					Weight percentage Sn	0.0005–0.5 %
					Weight percentage Ti	0.001–0.5 %
					Weight percentage V	0.001–1.0 %
Metallographic analyses						
38	GOST 9.908, para. 2.1	Metals and alloys	—	—	Rate of general/continuous corrosion	—
					Weight loss	kg/m ²
					Corrosion linear rate	m/year
39	GOST 9.912 para. 1	Corrosion-resistant steels and alloys	—	—	Cumulative weight loss, g	g
					Average relative rate of pitting corrosion	g·m ⁻² ·hr ⁻¹

1	2	3	4	5	6	7
40	GOST 800	Seamless hot-worked (with machined external surface) pipes of steel grades IIIX15, IIIX15-III, IIIX15CF, IIIX15CF-III, IIIX15-B, IIIX15CF-B (ShKh15, ShKh15-Sh, ShKh15SG, ShKh15SG-Sh, Sh15-V, ShKh15SG-V) and cold-worked (non-machined) pipes of steel grades IIIX15, IIIX15-III and IIIX15-B (ShKh15, ShKh15-Sh and ShKh15-V), intended for fabrication of parts for bearings	—	—	Macrostructure assessment	(1-4) points
41	GOST 13938.13 para. 3	Cast copper, deformed	—	—	Weight percentage O	0.01–0.15 %
42	GOST 32597	Copper and copper alloys	—	—	Surface defects assessment	yes/no
43	GOST R 58228	Blanks of low-alloy, alloy and stainless steel	—	—	Macrostructure assessment	(0-4) points
44	ASTM E 45	Metallic materials	—	—	Assessment of the level of steel contamination with non-metallic inclusions	(0.5–5) points
45	ASTM E 112	Metallic materials	—	—	Determination of austenite grain size	-3 to 14
46	ASTM E 562	Metallic materials	—	—	Determination of phases volume ratio	0–100 %
47	ASTM G 44	Metallic materials	—	—	Specific surplus weight	g/m ²
					Specific surplus weight per unit of time	g/(m ² hr)
48	EN 10247	Metallic materials	—	—	Assessment of the level of steel contamination with non-metallic inclusions	(0.5–5) points
Mechanical Tests						

1	2	3	4	5	6	7
49	GOST 9.302 para. 5.7	Metallic and non-metallic non-organic coatings produced by electrochemical, chemical and hot-dipping (tin and tin alloys) methods	—	—	Coating adhesion strength	compliance/non-compliance
50	GOST 9.302 para 5.8	Metallic and non-metallic non-organic coatings produced by electrochemical, chemical and hot-dipping (tin and tin alloys) methods	—	—	Coating adhesion strength	compliance/non-compliance
51	GOST 9.302 para. 5.10	Metallic and non-metallic non-organic coatings produced by electrochemical, chemical and hot-dipping (tin and tin alloys) methods	—	—	Coating adhesion strength	compliance/non-compliance
52	GOST 9.302 para. 5.12	Metallic and non-metallic non-organic coatings produced by electrochemical, chemical and hot-dipping (tin and tin alloys) methods	—	—	Coating adhesion strength	compliance/non-compliance
53	GOST 25.502	Ferrous and non-ferrous metals and alloys	—	—	Fatigue	0–1 000 kN
54	GOST 25.505	Ferrous and non-ferrous metals and alloys	—	—	Fatigue	0–1 000 kN
55	GOST 191 para. 4.5	Loading plate chains used in reciprocation chain gears	—	—	Failure load	0–1 000 kN
56	GOST 397 para. 4.5	Cotter pins, nominal diameter 0.6 mm to 20 mm	—	—	Number of bends	2–3
57	GOST 618 Appendix Б	Aluminum rolled foil	—	—	Temporary resistance Relative elongation after breakage	0–1 000 kN
58	GOST 3241 Appendix 3	General purpose steel ropes	—	—	Actual breakaway load	0–1 000 kN

1	2	3	4	5	6	7
59	GOST 3634 para. 7.5	Manholes for pits and chambers of urban underground services: heating, gas supply and cable systems, water lines, sewage, and street drainage inlets of storm water drainage systems designed for surface run-off and rainfall collection	—	—	Mechanical strength	0–1 000 kN
60	GOST 3728	Round metal pipes	—	—	Angle of bend	0–180°
61	GOST 3779	Crusher gauges	—	—	Homogeneity	80–2 000 kg
					Hardness	4.0–9.0 mm
					Surface strength	80–2 000 kg
62	GOST 6032 para.7	Metal products of stainless steels and alloys, and welded joints and weld deposits of such steels and alloys	—	—	Resistance to inter-crystalline corrosion	compliance/non-compliance
63	GOST 6032 para. 8	Metal products of stainless steels and alloys, and welded joints and weld deposits of such steels and alloys	—	—	Resistance to inter-crystalline corrosion	compliance/non-compliance
64	GOST 6032 Appendix ДА	Metal products of stainless steels and alloys, and welded joints and weld deposits of such steels and alloys	—	—	Resistance to inter-crystalline corrosion	compliance/non-compliance
65	GOST 6032 Appendix ДЕ	Metal products of stainless steels and alloys, and welded joints and weld deposits of such steels and alloys	—	—	Resistance to inter-crystalline corrosion	compliance/non-compliance
66	GOST 6402 para. 3.6	Lock washers for bolts, screws and pins with thread diameter from 2 to 48 mm	—	—	Linear dimensions	0–36 mm
67	GOST 6402 para. 3.7	Lock washers for bolts, screws and pins with thread diameter from 2 to 48 mm	—	—	Spring elastic properties	pass/fail

1	2	3	4	5	6	7
68	GOST 8694	Seamless and welded round metal pipes with wall thickness of 9.0 mm max. and pipe diameter 150 mm max.	—	—	Flaring size	0–100 %
69	GOST 9466	Coated metal welding rods for manual arc welding of steels and hard surfacing of steels and alloys	—	—	Dimensions	compliance/non-compliance
70	GOST 9583 para. 4.3	Cast iron flared pipes designed for pressure water supply systems	—	—	Bending strength determined by tension	0–1 000 kN
71	GOST 9583 para. 4.4	Cast iron flared pipes designed for pressure water supply systems	—	—	Bending strength determined by crushing	0–1 000 kN
72	GOST 10446	Metal and metal alloy wire with diameter or maximum cross-section of 16 mm max., of round, square, rectangular and special shape with width-to-thickness ratio of 4 max., with non-varying section and die-rolled section	—	—	Yield point	0–1 000 kN
					Breaking strength	0–1 000 kN
					Relative uniform elongation	0–100 %
					Relative elongation after breakage	0–100 %
73	GOST 10447	Metal wire of different shapes with cross-section or diameter of 0.1 mm to 10 mm inclusive	—	—	Capability of metal wire to undergo plastic deformation during winding	absence/presence of fractures
74	GOST 10510	Sheets and bands with the thickness of 0.1 to 2.0 mm	—	—	Erichsen test on sheets and bands with the thickness of 0.1 to 2.0 mm	0–20 mm
75	GOST 11706	Round metal pipes with wall thickness of 2 to 8 mm inclusive, and diameter of 18 to 150 mm	—	—	Flaring size	0–100%
76	GOST 13345 Appendix 1	Cold-rolled steel and tin plated steel (hot-dip and electrolytic tin plating)	—	—	Rockwell hardness	0–100 HRT
77	GOST 13813	Sheets and bands with the thickness of less than 4 mm	—	—	Number of folds	1+

1	2	3	4	5	6	7
78	GOST 18835	Ferrous and non-ferrous metals and alloys with the hardness of 80 to 800 HД (ND)	—	—	Plastic hardness number	80–800 HД (ND)
79	GOST 22706	Ferrous and non-ferrous metals, alloys and products of such metals and alloys	—	—	proportionality limit	0–1 000 kN
					elastic limit	0–1 000 kN
					yield point	0–1 000 kN
					breaking strength	0–1 000 kN
					relative uniform elongation	0–100 %
					relative uniform elongation after breakage	0–100 %
80	GOST 22727	Flat rolled stock of carbon and alloy steel	—	—	Discontinuity flaws of metal such as laminations, non-metal inclusions, rolling laps, cladding layer peeling	(0–3) class
					energy spent to destroy a specimen	0–300 J
81	GOST 22848	Metals and alloys and products of metals and alloys	—	—	impact strength	0–300 J
					Percentage of ductile constituent in the fracture of a specimen destroyed by impact bending	0–100 %
					Impact energy	0–300 J
82	GOST 23046	Brazed joints of metals and alloys	—	—	Relative failure energy	0–300 J
					Compressive strength	0–1 000 kN
84	GOST 25905 Appendix 26	Aluminum rolled foil used for manufacture of capacitors	—	—	Breaking strength	0–1 000 J
					Relative elongation	0–100 %
85	GOST 26529 Appendix 26	Powder materials	—	—	Radial compressive strength	0–1 000 kN

1	2	3	4	5	6	7
86	GOST 26877	Blooms, slabs, blanks, sheets, bands, strips, rolls, bars, pipes, hot-rolled and bent shaped pieces, wire rods and wire of ferrous and non-ferrous metals and alloys	—	—	Out-of-flatness and out-of-straightness	0–1 000 mm
87	GOST 30246 Appendix B	Coiled rolled steel sheets with protective and decorative paint coating	—	—	Hardness of coating at T-bend	0T–4T
88	GOST 30311	Titanium sponge	—	—	Brinell hardness	95.5–653 HB
89	GOST 30441	Short-link load lifting non-pitched chains with T(8) strength rating	—	—	Failure load	0–1 000 kN
90	GOST 34028 Appendix B	Smooth and die-rolled section rebar of A240, A400, A500 and A600 grades, die-rolled rebar of An600, A800 and A1000 grades	—	—	bend and re-bend test	pass/fail
91	GOST 34028 Appendix Г	Smooth and die-rolled section rebar of A240, A400, A500 and A600 grades, die-rolled rebar of An600, A800 and A1000 grades	—	—	Weldability	satisfactory/unsatisfactory
92	GOST 34028 Appendix E	Smooth and die-rolled section rebar of A240, A400, A500 and A600 grades, die-rolled rebar of An600, A800 and A1000 grades	—	—	Durability when subjected to multiple cyclic loads	pass/fail
93	GOST R 50575 para. 4.3	Zink coatings on round steel wire	—	—	Adhesion test	pass/fail
94	GOST R 51162 para. 7.5	Cast aluminum domestic utensils intended for cooking	—	—	Strength of joint between fittings and body of utensils	pass/fail
95	GOST R 51162 para.7.10	Cast aluminum domestic utensils intended for cooking	—	—	Thermal resistance of coating	pass/fail
96	GOST R 51162 para. 7.11	Cast aluminum domestic utensils intended for cooking	—	—	Mechanical strength of coating	pass/fail

1	2	3	4	5	6	7
97	GOST R 51756 para. 8.7	Aluminum deep-drawn cans, lithographic tin-plated and non-lithographic tin-plated, lacquered cans with easy-to-open lids (top element of a can)	—	—	Can deformation axial load check	0–1 000 kN
98	GOST R 52146 Appendix Г	Thin sheet cold rolled and cold rolled hot-galvanized rolled products with polymer (paint and plastisol) coating	—	—	Polymer coating adhesion	0–4
99	GOST R 52146 Appendix Д	Thin sheet cold rolled and cold rolled hot-galvanized rolled products with polymer (paint and plastisol) coating	—	—	Back impact strength of polymer coating	10–100 cm
100	GOST R 52146 Appendix E	Thin sheet cold rolled and cold rolled hot-galvanized rolled products with polymer (paint and plastisol) coating	—	—	Coating tensile strength (Ericksen method)	0–6 mm
101	GOST R 52146 Appendix Ж	Thin sheet cold rolled and cold rolled hot-galvanized rolled products with polymer (paint and plastisol) coating	—	—	Bend strength of polymer coating	pass/fail
102	GOST R 52544 Appendix Б	Die-rolled section weldable rebar of A500C and B500C grades	—	—	Weldability	pass/fail
103	GOST R 52544 Appendix Г	Die-rolled section weldable rebar of A500C and B500C grades designed for reinforcement of reinforced concrete structures	—	—	Durability	pass/fail
104	GOST R 57997 para. 7.15	Weldable rebar and embedded items of reinforced concrete structures, welded joints of re-bars	—	—	Failure load	0–1 000 kN
105	GOST R 57997 para. 7.16	Weldable rebar and embedded items of reinforced concrete structures, welded joints of re-bars	—	—	Failure load	0–1 000 kN

1	2	3	4	5	6	7
106	GOST R 57997, para. 7.18	Weldable rebar and embedded items of reinforced concrete structures, welded joints of re-bars	—	—	Failure load	0–1 000 kN
107	GOST R 58146.3, para. 9.3	Products of steel wire mesh with hexagonal cells	—	—	Vertical displacement	0–1 000 mm
108	GOST ISO 898-1, para. 9.10.3	Bolts, screws and pins of carbon and alloy steels	—	—	Rockwell hardness	20–70 HRC
109	GOST ISO 898-1, para. 9.11	Bolts, screws and pins of carbon and alloy steels	—	—	Vickers hardness	4.95–2 576 HV
110	GOST ISO 898-5, para. 9.1	Adjustment screws and similar fittings of carbon and alloy steels	—	—	Vickers hardness	4.95–2 576 HV
111	GOST ISO 898-5, para. 9.2.3	Adjustment screws and similar fittings of carbon and alloy steels	—	—	Decarbonization by hardness HV300	0–580 HV300
112	GOST R ISO 148-1	Metallic materials	—	—	Absorbed energy	0–300 J
113	GOST R ISO 5178	Metal welded structures	—	—	Tensile strength	0–1 000 J
					Yield point	0–1 000 J
					Relative elongation	0–100 %
					Relative reduction of area	0–100 %
114	OST 1 90052	Metallic materials	—	—	Notch sensitivity	0–1 000 kN
115	OST 1 90148	Wire, rivets, bolts and special specimens of ferrous and non-ferrous metals with diameter of 2 to 25 mm	—	—	Shear strength	0–1 000 kN
116	OST 10 138	Tin plated lacquered steel sheets	—	—	Tensile strength	0–15 mm
					Impact strength	0–400 mm

1	2	3	4	5	6	7
117	EN 10049	Metallic products	—	—	Arithmetic average roughness height, Ra	0.008–100 µm
118	EN ISO 6506-1	Metallic materials	—	—	Brinell hardness	95.5–650 HB
119	EN ISO 6508-1	Metallic materials	—	—	Rockwell hardness	70–100 HRA
					Rockwell hardness	60–100 HRB
					Rockwell hardness	20–70 HRC
					Rockwell hardness	0–100 HRT
					Rockwell hardness	0–100 HRN
120	EN ISO 6892-1, para. 11	Metallic materials	—	—	Breaking strength	0–1 000 kN
121	EN ISO 6892-1, para. 12	Metallic materials	—	—	Yield point	0–1 000 kN
122	EN ISO 6892-1, para. 13	Metallic materials	—	—	Proportionality limit	0–1 000 kN
123	EN ISO 6892-1, para. 14	Metallic materials	—	—	Young's modulus	0–1 000 kN
124	EN ISO 6892-1, para. 17	Metallic materials	—	—	Relative uniform elongation	0–100 %
125	EN ISO 6892-1, para. 20	Metallic materials	—	—	Relative elongation after breakage	0–100 %
126	EN ISO 6892-1, para. 21	Metallic materials	—	—	Relative reduction of cross-section area after breakage	0–100 %
127	EN ISO 6892-1, para. 15	Metallic materials	—	—	Test load	pass/fail
128	EN ISO 6892-2	Metallic materials	—	—	Proportionality limit	0–1 000 kN
					Young's modulus	0–1 000 kN

1	2	3	4	5	6	7
					Yield point	0–1 000 kN
					Breaking strength	0–1 000 kN
					Relative uniform elongation	0–100 %
					Relative elongation after breakage	0–100 %
					Relative reduction of cross-section area after breakage	0–100 %
129	EN ISO 15630-1, para. 5	Rebar, rod wire and wire	—	—	Relative elongation after breakage	0–100%
					Relative uniform elongation after breakage	0–100%
					Relative reduction of area after breakage	0–100%
					Breaking strength	0–1 000 kN
					Yield point	0–1 000 kN
					Elastic limit	0–1 000 kN
					Young's modulus	0–1 000 kN
130	EN ISO 15630-1, para. 6	Rebar, rod wire and wire	—	—	Bend	pass/fail
131	EN ISO 15630-1, para. 7	Rebar, rod wire and wire	—	—	bend and re-bend test	pass/fail