



ACCREDITATION SCOPE

TESTING LABORATORY (GOST ISO/IEC 17025-2019)

Laboratory of non-destructive methods of monitoring and diagnostics of central laboratory of welding and technical monitoring of Limited Liability Company Corporation of Joint-Stock Company "Elektrosvkavmontazh"

name of testing laboratory

RA.RU.21HH90

number in accredited person register

1. 56, MN Demusa St., Krasnodar, Krasnodar region, RUSSIA 350080.

places of activity performance

2. floor 3, non-residential premises of letter A1, Karasunsky district, 11, MN Demusa St., Krasnodar, Krasnodar region, RUSSIA 350080

places of activity performance

56, MN Demusa St., Krasnodar, Krasnodar region, RUSSIA 350080

places of activity performance

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTICS (INDEX)	DEFINITION RANGE
1. Tests (surveys) of products						
1.1.	GOST R 57997, s/cl. 7.10-7.18; physical and mechanical; Strength	Steel reinforcing wire, filler rods, rods, plates, coated electrodes or flux cored wire;	24.10.62.210; 25.93.15		Tensile strength	from 10 to 2500 (N/mm ²) from 1.0 to 255.0 (kgf/mm ²)
					Rupture force	from 10 to 500000 (N) from 1.0 to 50000 (kgf)
1.2.	GOST 19040; physical and mechanical; Strength	Pipes, profiles hollow and their fittings steel; Pipes and tubes, AND fitting and pipes and tubes, aluminum; Pipes and titanium tubes;	24.20;24.42.26;24.45.30.186		Temporary resistance	from 10 up to 2500 (N/mm ²) 1.0 to 255,0 (kgf/mm ²)
					Specific narrowing after rupture	from 1 to 99 (%)
					Specific elongation after rupture	from 1 to 99 (%)
					Conditional yield strength	from 10 to 2500 (N/mm ²)

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1.2.					Conditional yield strength	from 1,0 to 255,0 (kgf/mm[2*])
					Yield strength physical	from 10 to 2500 (N/mm[2*]) 1.0 to 255,0 (kgf/mm[2*])
1.3.	GOST 2999; Physical and mechanical; Hardness	Hot-rolled steel sheet, without additional processing; Rolled sheet cold-rolled steel, without additional processing, at least 600 mm wide; rolled steel sheets in packages and steel rail profiles for railways and tramways; other ferrous metal rolled products, not included in other groups; Cold-drawn bars;	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.34.1; 24.45.30.184; 24.45.30.186; 24.45.30.183; 25.93.15; 24.20		Vickers hardness	from 14 to 1000 (HV)

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1.3.		Cold drawn wire; Plates, sheets, titanium strips and tapes; Titanium pipes and tubes; Wire, bars, titanium profiles; Wire, filler bars, rods, plates, coated electrodes or flux-cored wire; Pipes, hollow profiles and their steel fittings;				
1.4.	GOST R ISO 6507.1; Physical-mechanical; Hardness	Hot-rolled steel sheet, without additional processing; sheet cold-rolled steel, without additional processing, width not less than 600 mm; sectional and wire rod hot-rolled steel; Profiles open hot steel processing,	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.34.1; 24.45.30.184; 24.45.30.186; 24.45.30.183; 25.93.15; 24.20		Vickers hardness	from 14 to 1000 (HV)

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1.4.		steel in packages and rail profile for railways and tramways steel; Other ferrous metal products, not included in other groups; Cold-drawn bars; Wire and cold-drawn; Plates, titanium sheets, strips and tapes; titanium pipes and tubes; wire, rods, titanium profiles; Wire, filler bars, rods, plates, coated electrodes or flux-cored wire; Pipes, hollow profiles and their steel fittings;				
1.5.	ISO 6506-1; Physical - mechanical; Hardness	Hot-rolled steel sheet, without additional processing; Cold-rolled sheet metal	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.34.1; 24.20; 25.93.15		Brinell hardness	8 to 650 (HBW)

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1.5.		steel, without additional processing, at least 600 mm wide; rolled steel sheets in packages and steel rail profiles for railways and tramways; other ferrous metal rolled products, not included in other groups; Cold-drawn bars; Cold-drawn wire; Pipes, hollow profiles and their fittings steel; Wire, filler bars, rods, plates, coated electrodes or flux cored wire;				

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1.6.	ISO 6508-1; Physical - mechanical; Hardness	Hot-rolled steel sheet, without additional processing; sheet cold- rolled steel, without additional processing, at least 600 mm wide; rolled steel sheets in packages and steel rail profiles for railways and tramways; other ferrous metal rolled products, not included in other groups; Cold-drawn bars; Cold-drawn wire; Pipes, hollow profiles and their fittings steel; Wire, filler bars, rods, plates, coated electrodes or flux cored wire;	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.34.1; 24.20; 25.93.15		Rockwell hardness	70 to 90 (HRA) 20 to 67 (HRC)

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1.6.						

**1. floor 3, non-residential premises of letter A1, Karasunsky district, 11,
MN Demusa St., Krasnodar, Krasnodar region, RUSSIA 350080**

addresses of places of business

ITEM N	DOCUMENTS SETTING RULES AND METHODS OF RESEARCH (TEST) AND MEASUREMENT	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1. Tests (surveys) of products						
1.1.	I-2730.91.04-98; Other research (testing); methods of other studies (tests) without specification	Hot-rolled steel sheet, without additional processing; sheet cold- rolled steel, without additional processing, at least 600 mm wide; rolled steel sheets in packages and steel rail profiles for railways and tramways; other ferrous metal rolled products, not included in other groups; Cold-drawn bars; Cold-drawn wire; Pipes, hollow profiles and their steel fittings;	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.34.1; 24.20; 25.93.15		Weld defects	found/not found
					Sample preparation	
					Defect sizes	from 0.02 to 100 (mm)

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1.1		Wire, filler bars, rods, plates, coated electrodes or flux cored wire;				
1.2.	I 1.1.3.17.1692-2020, cl.6; Other research (tests);methods other research (tests) without specification	Hot-rolled steel sheet, without additional processing; sheet cold-rolled steel, without additional processing, not wide less than 600 mm; sectional and wire rod hot-rolled steel; Profiles open hot steel processing, rolled steel sheet IN packages and rail profile for iron roads and tram tracks steel; Rolled black other metals, not included in others groupings; bars cold drawn;	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.34.1; 24.20; 24.42.22; 24.42.24; 24.42.26; 24.45.30.184; 24.45.30.186; 24.45.30.183; 25.93.15		Weld defects Sample preparation Defect sizes	found/not found from 0,02 to 100 (mm)

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1.2.		<p>Cold drawn wire; Pipes, hollow profiles and their steel fittings; bars, wire rod and profiles of aluminum or aluminum alloys; Plates, aluminum sheets, strips and tapes with thickness of more than 0.2 mm; Pipes and tubes, and fittings for pipes and tubes, aluminum; Plates, sheets, titanium strips and tapes; Titanium pipes and tubes; Wire, bars, titanium profiles; Wire, filler bars, rods, plates, coated electrodes or flux cored wire;</p> <p>Hot-rolled steel sheet, without additional processing; Cold-rolled sheet metal</p>				
1.3.	GOSTR 50.05.08; Non-destructive testing control; external inspection and measurements		24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.34.1; 24.20; 24.42.22; 24.42.24;		<p>Deviations from geometric dimensions</p> <p>Geometric dimensions</p>	<p>found/not found</p> <p>from 0,1 to 1000 (mm)</p>

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1.3.		steel, without additional processing, at least 600 mm wide; rolled steel sheets in packages and steel rail profiles for railways and tramways; other ferrous metal rolled products, not included in other groups; Cold-drawn bars; Cold-drawn wire; Pipes, hollow profiles and their steel fittings; bars, wire rod and profiles of aluminum or aluminum alloys; Plates, aluminum sheets, strips and tapes with thickness of more than 0.2 mm; Pipes and tubes, and fittings for pipes and tubes, aluminum; Plates, sheets, stripes and tapes	24.42.26; 24.45.30.184; 24.45.30.186; 24.45.30.183; 25.93.15		Geometric dimensions of defects	from 0,1 to 1000 (mm)
					Weld defects	found/not found

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1.3.		titanium; Pipes and tubes titanium; Wire, rods, titanium profiles; Wire, filler bars, rods, plates, coated electrodes or flux cored wire;				
1.4.	PNAE G-7-016-89; Non-destructive testing; external inspection and measurements	Hot-rolled steel sheet, without additional processing; sheet cold-rolled steel, without additional processing, not less than 600 mm wide; Hot-rolled steel bars and wire rods; Open-ended hot-working steel profiles, rolled steel sheets in packages and steel rail profiles for railways and tramways; Other ferrous metal products, not	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.34.1; 24.20; 24.42.22; 24.42.24; 24.42.26; 24.45.30.184; 24.45.30.186; 24.45.30.183; 25.93.15		Weld defects Geometric dimensions of defects Geometric dimensions Deviations from geometric dimensions	found/not found from 0,1 to 1000 (mm) from 0.1 to 1000 (mm) found/not found

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1.4.		included in other groups; Cold-drawn bars; Cold-drawn wire; Pipes, hollow profiles and their steel fittings; bars, wire rod and profiles of aluminum or aluminum alloys; Plates, aluminum sheets, strips and tapes with thickness of more than 0.2 mm; Pipes and tubes, and fittings for pipes and tubes, aluminum; Plates, sheets, titanium strips and tapes; titanium pipes and tubes; Wire, bars, titanium profiles; Wire, filler bars, rods, plates, coated electrodes or flux cored wire;				
1.5.	GOST R 50.05.09, color way; non-destructive	Hot-rolled steel sheet,	24.10.3; 24.10.4; 24.10.6; 24.10.7;		Indicator drawings of defects	found/not found

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1.5.	testing by penetrating substances. Liquid penetration color method	without additional processing; sheet cold- rolled steel, without additional processing, at least 600 mm wide; rolled steel sheets in packages and steel rail profiles for railways and tramways; other ferrous metal rolled products, not included in other groups; Cold-drawn bars; cold-drawn wire; Pipes, hollow profiles and their steel fittings; Bars, wire rod and profiles of aluminum or aluminum alloys; Plates, aluminum sheets, strips and tapes with a thickness of more than 0.2 mm; Pipes and tubes, and fittings	24.10.8; 24.31; 24.34.1; ;24.20; 24.42.22; 24.42.24; 24.42.26; 24.45.30.184; 24.45.30.186; 24.45.30.183; 25.93.15		Indicator drawings of defects	from 0.2 to 1000 (mm)

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1.5.		for pipes and tubes, aluminum; Plates, sheets, titanium strips and tapes; Titanium pipes and tubes; Wire, bars, titanium profiles; Wire, filler bars, rods, plates, coated electrodes or flux cored wire;				
1.6.	PNAE G-7-018-89, color method; non-destructive testing; non-destructive testing by penetrating substances. Liquid penetration color method	Hot-rolled steel sheet, without additional processing; sheet cold- rolled steel, without additional processing, at least 600 mm wide; rolled steel sheets in packages and rail profiles for iron	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.34.1; 24.20; 25.93.15		Indicator drawings of defects	found/not found from 0,2 to 1000 (mm)

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1.6.		steel tram tracks; Other ferrous metal products, not included in other groups; cold-drawn bars; cold-drawn wire; Pipes, hollow profiles and their fittings steel; Wire, filler bars, rods, plates, coated electrodes or flux cored wire;				

position of authorized person

signature of authorized person

initials, surname of authorized person