



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 "Elektrosevkavmontazh"

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 1497-84, except for item 1, four.one, 4.3, 4.6; Physical-mechanical; Strength	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; Hot-rolled sheet metal from	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.10.31; 24.42.22; 24.42.24; 24.45.30.184; 24.45.30.183		temporary resistance	25 to 2500 (N/mm ²) from 2,5 to 255.0 (kgf/mm ²)
					Conditional yield strength	25 to 2500 (N/mm ²) from 2,5 to 255,0 (kgf/mm ²)
					Yield strength physical	25 to 2500 (N/mm ²) from 2,5 to 255.0 (kgf/mm ²)
					Relative uniform elongation	1 to 99 (%)
					Relative elongation after rupture	1 to 99 (%)
					Relative contraction after rupture	1 to 99 (%)

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1.1.		unalloyed steels, without additional processing, not less than 600 mm wide; Bars, wire rod and profiles of aluminum or aluminum alloys; Plates, aluminum sheets, strips and tapes with thickness of more than 0.2 mm; Plates, sheets, titanium strips and tapes; Wire, bars, titanium profiles;				
1.2.	GOST 9651;Physical - mechanical; Strength	Hot-rolled steel sheet, without additional processing; sheet cold-rolled steel roll products, without additional processing, not wide less than 600 mm; sectional and wire rod hot-rolled steel; Profiles open hot steel processing, rolled sheet	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.42.22; 24.42.24; 24.45.30.184; 24.45.30.183		temporary resistance	25 to 2500 (N/mm[2*]) from 2.5 to 255,0 (kgf/mm[2*])
					Conditional yield strength	25 to 2500 (N/mm[2*]) from 2.5 to 255,0 (kgf/mm[2*])
					Yield strength physical	25 to 2500 (N/mm[2*]) from 2.5 to 255,0 (kgf/mm[2*])

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1.2.		steel in packages and rail profile for railways and tramways steel; Other ferrous metal products, not included in other groups; Cold-drawn bars; Bars, wire rod and profiles of aluminum or aluminum alloys; Plates, aluminum sheets, strips and tapes with thickness of more than 0.2 mm; Plates, titanium sheets, strips and tapes; Titanium wire, rods, profiles;			Relative uniform elongation	1 to 99 (%)
					Relative elongation after rupture	1 to 99 (%)
					Relative contraction after rupture	1 to 99 (%)
1.3.	GOST 11701; Physical mechanical; Strength	Rolled sheet	24.10.3; 24.10.4; 24.10.7; 24.31; 24.42.24; 24.45.30.184		temporary resistance	25 to 2500 (N/mm[2*]) from 2.5 to 255.0 (kgf/mm[2*])
		hot rolled steel, without additional processing; sheet cold-rolled steel rolled products, without additional processing, not wide less than 600 mm; Profiles			Conditional yield strength	25 to 2500 (N/mm[2*]) from 2.5 to 255.0 (kgf/mm[2*])

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1.3.		steel processing, rolled steel sheets in packages and steel rail profiles for railways and tramways; Cold-drawn bars; Plates, aluminum sheets, strips and tapes with a thickness of more than 0.2 mm; Titanium plates, sheets, strips and tapes;			Yield strength physical	from 2.5 to 2500 (N/mm[2*]) from 2.5 to 255.0 (kgf/mm[2*])
					Relative uniform elongation	from 1 to 99 (%)
					Relative elongation after rupture	from 1 to 99 (%)
1.4.	GOST 10006; Physical-mechanical; Strength	Pipes, hollow profiles and their steel fittings; Titanium pipes and tubes; Pipes and tubes, and fittings for pipes and tubes, aluminum;	24.20; 24.45.30.186; 24.42.26		temporary resistance	25 to 2500 (N/mm[2*]) FROM 2.5 BEFORE 255.0 (kgf/mm[2*])
					Conditional yield strength	25 to 2500 (N/mm[2*]) from 2.5 to 255.0 (kgf/mm[2*])
					Yield strength physical	25 to 2500 (N/mm[2*]) from 2.5 to 255.0 (kgf/mm[2*])
					Relative elongation after rupture	from 1 to 99 (%)

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1.4.					Relative contraction after rupture	from 1 to 99(%)
1.5.	GOST 12004; Physical mechanical; Strength	Reinforcing steel;	24.10.62.210		temporary resistance	25 to 2500 (N/mm[2*]) from 2.5 to 255.0 (kgf/mm[2*])
					Relative elongation after rupture	1 to 99 (%)
					Elongation at maximum load	1 to 99 (%)
1.6.	GOST 14019; Physical mechanical; Strength	Hot-rolled steel sheet, without additional processing; sheet cold- rolled steel rolled products, without additional processing, at least 600 mm wide; rolled steel sheet	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.20; 24.42.22; 24.42.24; 24.45.30. 184		Bending test	from 0 to 180 (°)
					bending angle	from 2 to 180 (°)
					cracks	presence/absence

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1.6.		steel rail profile for railways and tramways; Other ferrous metal products, not included in other groups; Cold-drawn bars; Pipes, hollow profiles and their steel fittings; bars ,wire rod and profiles of aluminum or aluminum alloys; Plates, sheets, strips and tapes of aluminum with a thickness of more than 0,2mm; Panels, sheets, titanium strips and tapes;				
1.7.	GOST 9454; Physical - mechanical; Viscosity	Hot-rolled steel sheet, without additional processing; sheet cold-rolled steel rolled products, without additional processing, not wide less than 600 mm; sectional and wire rod hot rolled steel;	24.1.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.20; 24.45.30.183		impact strength Impact strength (impact work)	2 to 400 (j/cm[2*]) from 30 to 240 (J)

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1.7.		Profiles open-ended hot working steel, 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; Pipes, hollow profiles and their fittings steel; Wire, bars, titanium profiles;				
1.8.	GOST 7268; Physical and mechanical; Strength	Hot-rolled steel sheet, without additional processing; sheet cold-rolled steel rolled products, without additional processing, width not less than 600 mm;	24.10.3;24.10.4; 24.10.6; 24.10.7; 24.10.8		<div>impact strength</div> <div>Change in characteristic index after aging</div>	<div>2 to 400 (j/cm[2*])</div> <div>from 1 to 100 (%)</div>

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1.8.		steel, rolled steel sheets in packages and steel rail profiles for railways and tramways; other ferrous metal rolled products, not included in other groups;				
1.9.	GOST 9012;Physical - mechanical; Hardness	Rolled sheet hot rolled steel, without additional processing; sheet cold-rolled steel rolled products, 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 lines steel; Rolled products of black other metals, not	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.20;24.31		Brinell hardness	from 8 to 450 (HB) 8 to 650 (HBW)

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1.9.		included in other groupings; Pipes, hollow profiles and their steel fittings; Cold- drawn bars;				
1.10.	GOST9013; Physical- mechanical; Hardness	<p>Rolled sheet</p> <p>hot rolled steel, without additional</p> <p>processing; sheet cold-rolled steel rolled products, without additional processing, not wide less 600 mm; Rolled 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-products of black other metals, not included in others groupings; bars cold drawn; Pipes,</p>	<p>24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.20</p>		Rockwell hardness	<p>from 20 to 88 (HRA) from 25 to 100 (HRB) from 20 to 67 (HRC)</p>

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1.10.		hollow profiles and their steel fittings;				
1.11.	GOST 8695; Physical - mechanical; Strength	Pipes, profiles hollow and their steel fittings; Pipes and tubes and pipe fittings and tubes, aluminum; Pipes and titanium tubes;	24.20;24.42.26; 24.45.30.186		Flattening test Distance cracks	withstand/not withstand from 1,8 to 246,5 (mm) presence/absence
1.12.	GOST 8694; Physical- mechanical; Strength	Pipes, profiles hollow and their fittings steel; Pipes and tubes, and pipe fittings and tubes, aluminum; Pipes and titanium tubes;	24.20;24.42.26;24.4 5.30.186		Distribution size cracks	from 4 to 20 (%) found/not found
1.13.	GOST 10922, clause 7.10,7.14, 7.15,7.16,7.17; Physical- mechanical; Strength	Reinforcing steel;	24.10.62.210		temporary resistance	25 to 2500 (N/mm[2*]) from 2, 5 to 255,0 (kgf/mm[2*])

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1.13.					Yield strength physical	FROM 25 to 2500 (N/mm[2*]) from 2.5 to 255,0 (kgf/mm[2*])
					Conditional yield strength	25 to 2500 (N/mm[2*]) FROM 2,5 to 255.0 (kgf/mm[2*])
					Breaking strength of the weld	- from 10 to 500 (kN) from 1,0 to 50000 (kgf)
					Relative uniform	
1.14.	GOST 6996; Physical- mechanical; Strength	Hot-rolled steel sheet, without additional processing; Rolled sheet cold-rolled steel, without additional processing, at least 600 mm wide;	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.20; 24.31; 24.42.24; 24.42.26; 24.45.30.184; 24.45.30.186; 24.34.1; 25.93.13		temporary resistance	25 to 2500 (N/mm[2*]) from 2,5 to 255,0 (kgf/mm[2*])
					Conditional yield strength	25 to 2500 (N/mm[2*]) from 2,5 to 255,0 (kgf/mm[2*])
					Yield strength physical	25 to 2500 (N/mm[2*]) from 2,5 to 255,0 (kgf/mm[2*])

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1.14.	steel in packages and rail profile for railways and tramways steel; Other ferrous metal products, not included in other groups; Steel pipes, hollow profiles and their fittings; Cold-drawn bars; Plates, sheets, strips and tapes of aluminum with thickness of more than 0.2 mm; Pipes and tubes, and fittings for pipes and tubes, aluminum; Plates, Titanium sheets, strips and tapes; Titanium pipes and tubes; Cold-drawn wire; Wire, filler bars, rods, plates, coated electrodes or flux cored wire;				Relative contraction after rupture	FROM 1 to 99 (%)
					Relative elongation after rupture	1 to 99 (%)
					Bending test	from 2 to 180 (°)
					Flattening test	- from 2 to 45 (mm)
					cracks	presence/absence
					Crack length	from 0,1 to 45 (mm)
					impact strength	2 to 400 (J/cm[2*])
					Brinell hardness	from 8 to 450 (HB) 8 to 650 (HBW)
					Rockwell hardness	20 to 88 (HRA) 25 to 100 (HRB) 20 to 67 (HRC)

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1.15.	PNAE G-7-002-86, appendix 2 cl.11.5; Physical - mechanical; Strength	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; Pipes, hollow profiles and their steel fittings; Stainless steel cold-drawn wire; Other alloy steel cold- drawn wire; Wire, filler bars, rods,	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.20; 24.34.12; 24.34.13; 25.93.15		bending angle	from 2 to 180 (°)
					cracks	found/not found

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1.15.		coated or wire with flux core;				

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

addresses of places of business

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1. Tests (research) of products						
1.1.	I-2730.91.03-92, Clause 15; Other studies (tests); methods of other studies (tests) without specification	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; Pipes, hollow profiles and their fittings steel; Wire, filler bars, rods,	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.20; 25.93.15		cracks	found/not found

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1.1.		plates, coated electrodes or flux cored wire;				
1.2.	GOST 6032, method AM, AMU, AMUF, A; Others research (testing); methods of other studies (tests) without specification	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; Cold-drawn bars; Cold- drawn bars and profiles with solid section of stainless steels; Pipes, hollow profiles and their fittings	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.31; 24.31.3; 24.20; 25.93.15		Sample preparation	
					Resistance to intergranular corrosion	persistent / unstable
					cracks	presence/absence

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1.2.		steel; Wire, filler bars, rods, plates, coated electrodes or flux cored wire;				
1.3.	GOST 1778,P.2, cl.3.1;Other studies (tests);methods other research (tests) without specification	Rolled sheet hot rolled steel, without additional processing; sheet cold-rolled steel rolled products, 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 lines steel; Rolled products of black other metals, not included in others	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.20		Sample preparation Linear oxides (OS) Point oxides (OT) Brittle silicates (CX) Plastic silicates (SP) Non-deformable silicates (CH) Sulfides	 from 0 to 5 (point) from 0 to 5 (point) from 0 to 5 (point) from 0 to 5 (point) from 0 to 5 (point) from 0 to 5 (point)

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1.3.		cold drawn; Pipes, hollow profiles and their steel fittings;			Linear nitrides and carbonitrides (NS)	from 0 to 5 (point)
					Point nitrides and carbonitrides (NT)	from 0 to 5 (point)
					Aluminum nitrides (NA)	from 0 to 5 (score)
1.4.	GOST 5639, cl.3.3; Others research (testing); methods of other studies (tests) without specification	Hot-rolled steel sheet, without additional processing; Rolled 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; 24.20		Sample preparation	
					Grain size	1 to 10 (nom.)

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1.4.		included in other groups; Cold-drawn bars; Pipes, hollow profiles and their steel fittings;				
1.5.	GOST 10243; Others research (tests); methods other research (tests) without specification	Rolled sheet hot rolled steel, without additional processing; sheet cold-rolled steel rolled products, 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 products of black other metals, not included in others groupings; bars cold drawn; Pipes,	24.10.3; 24.10.4; 24.10.6; ;24.10.7; 24.10.8 24.31; 24.20		Sample preparation Central porosity (CP) Point inhomogeneity (TN) Common Spotted Segregation (CPL) Marginal spotted liquation (KPL) Liquation Square (LK)	 found/not found from 0 to 5 (point) found/not found from 0 to 5 (point) found/not found from 0 to 5 (point) found/not found from 0 to 5 (point) found/not found from 0 to 5 (point)

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1.5.		hollow profiles and their steel fittings;			Shrink segregation	found/not found from 0 to 5 (point)
					Subcortical blisters (PP)	found/not found from 0 to 5 (point)
					Intercrystalline cracks (MT)	found/not found from 0 to 5 (point)
					Layered crystallization (PC)	found/not found from 0 to 5 (point)
					Light stripe (contour) (SP)	found/not found from 0 to 5 (point)
					Defects	found/not found
					Remains of a shrinkage shell	found/not found
					Shrink looseness	found/not found

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1.5.					cracks	found/not found
					Foreign metal inclusions	found/not found
					Foreign slag inclusions	found/not found
					Crust	found/not found
					bundle	found/not found
					Flockens	found/not found
					Rough spotted liquation	found/not found
					Coarse rolled pores and gas bubbles	found/not found

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1.6.	OST 95 10540; Others research (testing); methods of other studies (tests) without specification	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 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; 24.20; 25.93.15		Weld defects Sample preparation	found/not found from 0.1 to 100 (mm)

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1.7.	GOST 11878, clause 3; Other studies (tests); methods of other studies (tests) without specification	Hot-rolled stainless steel sheet, without additional processing, less than 600 mm wide; Cold-rolled stainless steel sheet, without additional processing, not less than 600 mm wide; Hot- rolled non-closed profiles, hot drawn or extruded, without further processing, from stainless steels; Cold- drawn bars and profiles with solid section from stainless steels; Cold-drawn wire from stainless steel; Pipes, hollow profiles and their steel fittings; Wire,	24.10.34; 24.10.42; 24.10.63; 24.10.72; 24.31.3; 24.34.12; 24.20; 25.93.15		Content of ferrite phase	from 0.1 to 20 (%)

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1.7.		filler bars, rods, plates, coated electrodes or flux cored wire;				
1.8.	GOST R 53686; Others research (testing); methods of other studies (tests) without specification	Hot-rolled stainless steel sheet, without additional processing, less than 600 mm wide; Cold-rolled stainless steel sheet, without additional processing, not less than 600 mm wide; Hot- rolled non-closed profiles, hot drawn or extruded, without additional processing, stainless steel;	24.10.34; 24.10.42;24.10.63; 24.10.72; 24.31.3; 24.34.12; 24.20; 25.93.15		Content of ferrite phase	from 0.1 to 20 (%)

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1.8.		Stainless steel cold-drawn bars and solid profiles; Stainless steel cold-drawn wire; Pipes, hollow profiles and their steel fittings; Wire, filler bars, rods, plates, coated electrodes or flux cored wire;				
1.9.	RMD 2730.300.08-2003; Other studies (trials); methods of other studies (tests) without specification	Hot-rolled stainless steel sheet, without additional processing, less than 600 mm wide; Cold-rolled stainless steel sheet, without additional processing, width not less than 600 mm;	24.10.34; 24.10.42; 24.10.63; 24.10.72; 24.31.3; 24.34.12; 24.20		Content of ferrite phase	from 0.1 to 20 (%)

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1.9.		stainless steel coils; Hot-rolled non-closed profiles, hot drawn or extruded, without additional processing, from stainless steels; Cold-drawn bars and profiles with solid section from stainless steels; Cold-drawn wire from stainless steel; Pipes, hollow profiles and their steel fittings;				
1.10.	GOST 18895;Chemical testing, physical-chemical tests; Atomic emission spectrometric (NPP, AES)	Hot-rolled steel sheet, without additional processing; sheet cold-rolled steel rolled-products, without additional processing, not wide less than 600 mm; sectional and wire rod hot rolled steel;	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		Mass fraction of carbon (C)	- from 0,010 to 2,0 (%)
					Mass fraction of sulfur (S)	from 0,002 to 2,0 (%)
					Mass fraction of phosphorus (P)	from 0,002 to 2,0 (%)
					Mass fraction of silicon (Si)	from 0,010 to 2,0 (%)

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1.10.		Open-ended hot-treated steel profiles, 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;			Mass fraction of manganese (Mn)	from 0.050 to 5.0 (%)
					Mass fraction of chromium (Cr)	from 0.010 to 10.0 (%)
					Mass fraction of nickel (Ni)	from 0.010 to 10.0 (%)
					Mass fraction of cobalt (Co)	from 0.010 to 5.0 (%)
					Mass fraction of copper (Cu)	from 0.010 to 2,0 (%)
					Mass fraction of aluminum (Al)	from 0.010 to 2,0 (%)
					Mass fraction of molybdenum (Mo)	from 0.010 to 5,0 (%)
					Mass fraction of tungsten (W)	from 0.020 to 5.0 (%)
					Mass fraction of vanadium (V)	from 0.005 to 5,0 (%)
					Mass fraction of titanium (Ti)	from 0.005 to 2,0 (%)
					Mass fraction of niobium (Nb)	from 0.010 to 2,0 (%)

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.11.	GOST R 54153; Chemical testing, physical and chemical tests; Atomic emission spectrometric (NPP, AES)	Steel; 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; Cold-drawn drawn; Pipes, hollow profiles and their fittings steel; Wire, filler bars, rods, plates, coated electrodes or flux cored wire;	24.10.2;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		<div>Mass fraction of carbon (C)</div> <div>Mass fraction of sulfur (S)</div> <div>Mass fraction of phosphorus (P)</div> <div>Mass fraction of silicon (Si)</div> <div>Mass fraction of manganese (Mn)</div> <div>Mass fraction of chromium (Cr)</div> <div>Mass fraction of nickel (Ni)</div> <div>Mass fraction of cobalt (Co)</div> <div>Mass fraction of copper (Cu)</div> <div>Mass fraction of aluminum (Al)</div> <div>Mass fraction of molybdenum (Mo)</div>	<div>- from 0.002 to 3,0 (%)</div> <div>from 0.001 to 0,20 (%)</div> <div>from 0.001 to 0,20 (%)</div> <div>0.002 to 5.0 (%)</div> <div>0.0005 to 35.0 (%)</div> <div>0.001 to 35.0 (%)</div> <div>0.001 to 45.0 (%)</div> <div>0.0005 to 20.0 (%)</div> <div>from 0.001 to 5,0 (%)</div> <div>0.001 to 10.0 (%)</div> <div>0.0002 to 10.0 (%)</div>

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.11.					Mass fraction of tungsten (W)	from 0.002 to 0,20 (%)
					Mass fraction of vanadium (V)	from 0.001 to 10,0
					Mass fraction of titanium (Ti)	from 0.001 to 5,0 (%)
					Mass fraction of niobium (Nb)	from 0.001 to 3,0 (%)
1.12.	MI 012013A5; Chemical testing, physical and chemical tests; Atomic absorption spectrometric (MS)	Steel; 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;	24.10.2; 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		Mass fraction of carbon (C)	- from 0.0050 to 2,50 (%)
					Mass fraction of sulfur (S)	from 0.0030 to 0,30
					Mass fraction of phosphorus (P)	from 0,0030 to 0,150 (%)
					Mass fraction of silicon (Si)	from 0.0030 to 4,0 (%)
					Mass fraction of manganese (Mn)	from 0,0030 to 17,5 (%)
					Mass fraction of chromium (Cr)	from 0,0030 to 32
					Mass fraction of nickel (Ni)	

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
1.12.		other metals, not included in other groups; Cold-drawn bars; Cold-drawn wires; Pipes, hollow profiles and their fittings steel; Wire, filler bars, rods, plates, coated electrodes or flux cored wire;			Mass fraction of nickel (Ni)	from 0,0030 to 45 (%)
					Mass fraction of cobalt (Co)	0.010 to 15 (%)
					Mass fraction of copper (Cu)	0.0050 to 3.20 (%)
					Mass fraction of aluminum (Al)	0.0050 to 7.0 (%)
					Mass fraction of molybdenum (Mo)	0.010 to 12 (%)
					Mass fraction of tungsten (W)	0.020 to 20 (%)
					Mass fraction of vanadium (V)	0.0050 to 10 (%)
					Mass fraction of titanium (Ti)	0.0030 to 3.70 (%)
					Mass fraction of niobium (Nb)	0.0050 to 5.0 (%)
1.13.	RD EO 0669; Chemical tests, physical and chemical tests; Atomic emission	Hot-rolled stainless steel sheet, without additional	24.10.34;24.10.42; 24.10.63; 24.10.72; 24.31.3; 24.34.12; 24.20; 25.93.15		Mass fraction of silicon (Si)	2 to 6 (%)
					Mass fraction of manganese	

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE										
1.13.	spectrometric (NPP, AES)	processing, less than 600 mm wide; Cold-rolled stainless steel sheet, without additional processing, not less than 600 mm wide; Hot-rolled non-closed profiles, hot drawn or extruded, without additional processing, from stainless steels; Cold-drawn bars and profiles with solid section from stainless steels; Cold-drawn wire from stainless steel; Pipes, hollow profiles and their steel fittings; Wire, filler bars, rods, plates, coated electrodes or coated wire			<table><tr><td>(Mp)</td><td>from 5 to 8,0 (%)</td></tr><tr><td>Mass fraction of chromium (Cr)</td><td>from 10,0 to 27,0 (%)</td></tr><tr><td>Mass fraction of nickel (Ni)</td><td>from 10,0 to 38,0 (%)</td></tr><tr><td>Mass fraction of copper (Cu)</td><td>from 1.9 to 2,5 (%)</td></tr><tr><td>Mass fraction of molybdenum (Mo)</td><td>5.0 to 7,0 (%)</td></tr></table>	(Mp)	from 5 to 8,0 (%)	Mass fraction of chromium (Cr)	from 10,0 to 27,0 (%)	Mass fraction of nickel (Ni)	from 10,0 to 38,0 (%)	Mass fraction of copper (Cu)	from 1.9 to 2,5 (%)	Mass fraction of molybdenum (Mo)	5.0 to 7,0 (%)	
(Mp)	from 5 to 8,0 (%)															
Mass fraction of chromium (Cr)	from 10,0 to 27,0 (%)															
Mass fraction of nickel (Ni)	from 10,0 to 38,0 (%)															
Mass fraction of copper (Cu)	from 1.9 to 2,5 (%)															
Mass fraction of molybdenum (Mo)	5.0 to 7,0 (%)															

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTI CS (INDEX)	DEFINITIO N RANGE
1.13.		flux core;				
1.14.	RD EO 0505; Chemical testing, physical chemical testing; Atomic emission spectrometric (AES,AES)	Steel; 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; cold-drawn wire; Pipes, hollow profiles and their fittings steel; Wire, filler bars	24.10.2; 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		<div>Mass fraction of vanadium (V)</div> <div>Mass fraction of molybdenum (Mo)</div> <div>Mass fraction of manganese (Mn)</div> <div>Mass fraction of chromium (Cr)</div> <div>Mass fraction of nickel (Ni)</div> <div>Mass fraction of titanium (Ti)</div> <div>Mass fraction of tungsten (W)</div> <div>Mass fraction of niobium (Nb)</div> <div>Mass fraction of silicon (Si)</div> <div>Mass fraction of cobalt</div>	<div>presence/absence from 0,015 to 2,15 (%)</div> <div>presence/absence from 0,015 to 2,00 (%)</div> <div>presence/absence from 0, 15 to 14,0 (%)</div> <div>presence/absence from 0,015 to 30,00</div> <div>presence/absence from 0,50 to 20,00 (%)</div> <div>presence/absence from 0,04 to 1,50 (%)</div> <div>presence/absence from 1,00 to 18,00 (%)</div> <div>presence/absence from 0,10 to 1,50 (%)</div> <div>presence/absence from 0,10 to 4,00(%)</div> <div>presence/absence</div>

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.14.		rods, plates, coated electrodes or flux cored wire;			(Co)	from 2,00 to10,00(%)
1.15.	GOST 7512; non-destructive testing; Radiation method	Hot-rolled steel sheet, without additional processing; sheet cold-rolled steel rolled products, 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 profile rail for iron roads and tram lines steel; Rolled products of black other metals, not included in others groupings; cold-drawn bars; cold-drawn wires Pipes,	24.10.3; 24.10.4; 24.10.6; 24.1.7; 24.10.8; 24.31; 24.34.1; 24.20; 24.42.24; 24.42.26; 24.45.30.184; 24.45.30.186; 25.93.15		Weld defects Defect sizes	found/not found from 0,1 to 200 (mm)

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.15.		hollow profiles and their steel fittings; plates, sheets, aluminum strips and tapes with thickness of more than 0.2 mm; Pipes and tubes, and fittings for pipes and tubes, aluminum; Titanium plates, sheets, strips and tapes; Titanium pipes and tubes; Filler wire, rods, plates, coated electrodes or flux cored wire;				
1.16.	PNAE G-7-017- 89; non-destructive testing; Radiation method	Rolled sheet hot rolled steel, without additional processing; sheet cold-rolled steel rolled products, without additional processing, width not less than 600 mm; sectional and wire rod hot-rolled steel; Profiles open hot	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 Defect sizes	found/not found from 0,1 to 200 (mm)

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.16.		steel in packages and rail profile for railways and tramways steel; Other ferrous metal products, not included in other groups; cold-drawn bars; cold-drawn wires; Pipes, hollow profiles and their fittings steel; Wire, filler bars, rods, plates, coated electrodes or flux cored wire;				
1.17.	GOST R 50.50.07; Non-destructive testing; Radiation method	Hot-rolled steel sheet, without additional processing; sheet cold-rolled steel rolled products, without additional processing, not wide less than 600 mm; sectional and wire rod hot rolled steel;	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.34.1; 24.20; 24.42.24; 24.42.26; 24.45.30.184; 24.45.30.186 24.45.30.183 25.93.15		Weld defects Defect sizes	found/not found from 0,1 to 200 (mm)

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTI CS (INDEX)	DEFINITIO N RANGE
1.17.		Profiles not closed hot-worked steel, 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; Plates, aluminum sheets, strips and tapes with thickness of more than 0.2 mm; Pipes and tubes, and fittings for pipes and tubes, aluminum; Titanium plates, sheets, strips and tapes; Titanium pipes and tubes; Wire, bars ,titanium profiles; Wire, filler bars, rods, plates, coated electrodes or flux cored wire;				

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTI CS (INDEX)	DEFINITIO N RANGE
1.17.						
1.18.	PNAE G-7-014- 89; non-destructive testing ; ultrasonic method of reflected radiation (echo method)	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; Pipes, hollow profiles and their steel fittings;	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.20		metal discontinuity	found/not found
					Conditional defect length	presence/absence from 0,5 to 100 (mm)
					equivalent defect area	presence/absence from 0,2 to 50 (mm[2*])

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.19.	PNAE G-7-030-91; non-destructive testing; ultrasonic method of reflected radiation (echo method)	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; 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		metal discontinuity	found/not found
					Conditional defect length	presence/absence from 0.5 to 100 (mm[2*])
					equivalent defect area	presence/absence from 0.2 to 50 (mm[2*])

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTI CS (INDEX)	DEFINITIO N RANGE
1.19.						
1.20	GOSTR 55724; non-destructive testing; ultrasonic method of reflected radiation (echo method)	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; cold-drawn wire; Pipes, hollow profiles and their steel fittings; plates, sheets, stripes and tapes	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.34.1; 24.20; 24.42.24; 24.42.26; 24.45.30.184; 24.45.30.183; 24.45.30.186 25.93.15		metal discontinuity Conditional defect length equivalent defect area	found/not found presence/absence from 0,5 to 100 (mm) presence/absence from 0,2 to 50 (mm[2*])

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.20.		aluminum with thickness of more than 0.2 mm; Pipes and tubes, and fittings for pipes and pipes, aluminum; Plates, sheets, titanium strips and tapes; Wire, bars, titanium profiles; Titanium pipes and tubes; Wire, filler bars, rods, plates, coated electrodes or flux cored wire;				
1.21.	OST 108.958.03-96 (RD 2728.001.01-96); non-destructive testing; ultrasonic reflected method radiation (echo method)	Rolled sheet hot rolled steel, without additional processing; sheet cold-rolled steel rolled products, without additional processing, not wide less than 600 mm; sectional and wire rod hot-rolled steel; Profiles open hot steel processing, rolled sheet	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.20		metal discontinuity Conditional defect length equivalent defect area	found/not found presence/absence from 0,5 to 100 (mm) presence/absence from 0,2 to 50 (mm ²)

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.21.		steel in packages and rail profile for railways and tramways steel; Other ferrous metal products, not included in other groups; Cold-drawn bars; Pipes, hollow profiles and their steel fittings;				
1.22.	GOST 21120; non-destructive testing; ultrasonic method of reflected radiation (echo method)	Steel;	24.10.2		metal discontinuity	found/not found
					Conditional defect length	from 0,5 to 100 (mm)
					equivalent defect area	presence/absence from 0,2 to 50 (mm[2*])
1.23.	GOST 17410; non-destructive testing; ultrasonic method of reflected radiation (echo method)	Pipes, hollow profiles and their steel fittings; Pipes and tubes, and fittings for pipes and tubes, aluminum; Pipes and	24.20; 24.42.26; 24.45.30.186		metal discontinuity	found/not found
					Conditional defect length	from 0,5 to 100 (mm)

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.23.					equivalent defect area	presence/absence FROM 0,2 BEFORE 50
1.24.	GOST 24507; non-destructive testing; ultrasonic method of reflected radiation (echo method)	Rolled products and hot- rolled steel wire rod; Other ferrous metal products, not included in other groups; Cold-drawn bars;	24.10.6; 24.10.8; 24.31		metal discontinuity	found/not found
					Conditional defect length	from 0,5 to 100(mm)
					equivalent defect area	presence/absence from 0,2 to 50 (mm[2*])
1.25.	GOST 22727; non-destructive testing; ultrasonic method of reflected radiation (echo method)	Hot-rolled steel sheet, without additional processing; Rolled sheet cold-rolled steel, without additional processing, width not less than 600 mm;	24.10.3; 24.10.4		metal discontinuity	found/not found
					Conditional defect length	presence/absence from 0,5 to 100(mm)
					equivalent defect area	presence/absence from 0,2 to 50 (mm[2*])
1.26.	GOST R 50.05.02 non-destructive testing; ultrasonic	Hot-rolled steel sheet, without additional	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.20;		metal discontinuity	found/not found

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE				
1.26.	reflected radiation (echo method)	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; Pipes, hollow profiles and their steel fittings; Cold-drawn wire; Plates, sheets, aluminum strips and tapes with a thickness of more than 0.2 mm; Pipes and tubes, and fittings for pipes and tubes, aluminum; Plates, sheets, titanium strips and tapes; Wire, bars,	24.34.1; 24.42.24; 24.42.26; 24.45.30.184; 24.45.30.183; 24.45.30.186; 25.93.15		<table><tr><td>Conditional defect length</td><td>presence/absence from 0,5 to 100 (mm)</td></tr><tr><td>equivalent defect area</td><td>presence/absence from 0.2 to 50 (mm[2*])</td></tr></table>	Conditional defect length	presence/absence from 0,5 to 100 (mm)	equivalent defect area	presence/absence from 0.2 to 50 (mm[2*])	
Conditional defect length	presence/absence from 0,5 to 100 (mm)									
equivalent defect area	presence/absence from 0.2 to 50 (mm[2*])									

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.26.		titanium profiles; Titanium pipes and tubes; Wire, filler bars, rods, plates, coated electrodes or flux cored wire;				
1.27.	GOST R 50.05.04 non-destructive	Rolled sheet hot- rolled from	24.10.34;24.10.45; 24.10.63; 24.10.72		metal discontinuity	found/not found
	testing; ultrasonic	stainless steels, without	24.31.3; 24.34.12; 25.93.15; 24.20		Conditional defect length	from 0,5 to 100 (mm)
	reflected method radiation (echo method)	additional processing, less than 600 mm; Rolled sheet cold rolled from stainless steels, without additional processing, not wide less than 600 mm; sectional and wire rod hot-rolled steel free winding in stainless steel coils steels; Profiles open hot-rolled, hot drawn or extruded, without additional processing, from			equivalent defect area	from 0.2 to 50 (mm2)

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.27.		stainless steels; Cold-drawn stainless steel bars and profiles with a solid section; Stainless steel cold-drawn wire; Wire, filler bars, rods, plates, coated electrodes or flux cored wire; Pipes, hollow profiles and their steel fittings;				
1.28.	GOST R 50.05.05-2018 ; Non-destructive testing; ultrasonic method of reflected radiation (echo method)	Hot-rolled steel sheet, without additional processing; Rolled sheet cold-rolled steel, without additional processing, at least 600 mm wide	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.20; 24.34.1; 24.31; 24.42.22; 24.42.24; 24.42.26; 24.45.30.184; 24.45.30.183; 24.45.30.186		metal discontinuity Conditional defect length equivalent defect area	found/not found presence/absence from 0.5 to 100 (mm) presence/absence from 0,2 to 50 (mm[2*])

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTI CS (INDEX)	DEFINITIO N RANGE
1.28.		steel in bags and steel rail profile for railways and tramways; Other ferrous metal products, not included in other groups; Steel pipes, hollow profiles and their fittings; Cold-drawn wire; Cold-drawn rods; Bars, wire rod and profiles made 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 for pipes and tubes, aluminum; Plates, sheets, titanium strips and tapes; Wire, bars, titanium profiles; Titanium pipes and tubes;				

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.29.	PNAE G-7-031-91; Non-destructive testing; ultrasonic thickness measurement	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; Wire, filler bars, rods, plates, coated electrodes or flux-cored wire core; Pipes, hollow profiles and their steel fittings;	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 25.93.15; 24.20		Thickness	from 0,63 to 500 (mm)

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTI CS (INDEX)	DEFINITIO N RANGE
1.29.						
1.30.	GOSTR 50.05.03 non-destructive testing; ultrasonic thickness measurement	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; Pipes, hollow profiles and their steel fittings; bars, wire rod and profiles of aluminum or aluminum alloys;	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.20; 24.42.22; 24.42.26; 24.45.30.184; 24.45.30.183; 24.45.30.186; 25.93.15		Thickness	from 0,63 to 500 (mm)

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.30		Pipes and tubes and pipe and tube fittings, aluminum; Plates, sheets, titanium strips and tapes; Wire, bars, titanium profiles; Titanium pipes and tubes; Wire, filler bars, rods, plates, coated electrodes or flux cored wire;				
1.31.	GOST 18442, except for luminescent; Non-destructive testing; non-destructive testing by penetrating substances. Capillary color method	Cold-rolled steel sheet, without additional processing, not less than 600 mm wide; Hot-rolled steel sheet, without additional processing; Profiles open hot working steel, rolled steel sheets in packages and steel rail profiles for railways and tramways;	24.10.4;24.10.3; 24.10.7; 24.10.8; 24.31; 24.31.1; 24.20; 24.42.22; 24.42.24; 24.42.26; 24.45.30.184; 24.45.30.183; 24.45.30.186 ; 25.93.15		Indicator drawings of defects	found/not found from 0.2 to 1000 (mm)

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTI CS (INDEX)	DEFINITIO N RANGE
1.31.		other metals, not included in other groups; Cold-drawn bars; Cold-drawn bars and profiles with a solid section of unalloyed steels; Pipes, hollow profiles and their steel fittings; Bars, wire rods and profiles of aluminum or aluminum alloys; Plates, sheets, strips and tapes of aluminum with a thickness of more than 0,2 mm; Pipes and tubes, and fittings for pipes and tubes, aluminum; Plates, sheets, titanium strips and strips; Wire, bars, titanium profiles; Titanium pipes and tubes; Wire, filler bars, rods, plates, coated electrodes or flux cored wire;				

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.32.	RB-090-89 non-destructive testing; non-destructive testing by penetrating substances. Liquid penetration color method	Rolled sheet hot rolled steel, without additional processing; Rolled sheet cold-rolled steel, without additional processing, not less than 600 mm wide; rolled steel sheets in packages and steel rail profiles for railways and tramways; not included in other groups; Cold-drawn bars; Cold-drawn bars and profiles with a solid section of unalloyed steels; Pipes, hollow profiles and their steel fittings; Wire, filler bars, rods, plates, coated electrodes	24.10.3; 24.10.4; 24.10.7; 24.10.6; 24.10.8 24.31; 24.31.1; 24.20; 25.93.15		Indicator drawings defects	found/not discovered from 0.2 to 1000 (mm)

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.32.		or flux cored wire;				
1.33.	PNAE G-7-019-89, clause 4.2; non-destructive testing; Non-destructive testing by penetrating substances. Leak detection, mass spectrometric method	Rolled sheet hot rolled steel, without additional processing; Rolled sheet cold-rolled steel, without additional processing, at least 600 mm wide; rolled steel sheets in packages and rail profiles for railways and steel tram tracks; Other ferrous metal products, not included in other groups; Cold-drawn bars; Pipes, hollow profiles and their fittings steel; Wire, filler bars	24.10.3; 24.10.4; 24.10.6 24.10.7; 24.10.8 24.31; 24.20; 25.93.15		No leakage	presence/absence

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTI CS (INDEX)	DEFINITION RANGE
1.33.		rods, plates, coated electrodes or flux cored wire;				
1.34.	PNAE G-7-019-89, clause 4.4; Non-destructive testing; Non-destructive testing by penetrating substances. Leak detection, bubble method	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; Pipes, hollow profiles and their steel fittings;	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.20; 25.93.15		No leakage	presence/absence

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.34.		Wire, filler bars, rods, plates, coated electrodes or flux cored wire;				
1.35.	PNAE G-7-019-89, clause 4.5, clause 5.2. clause 5.5, clause 5.6; Non-destructive testing; other non- destructive testing methods	Rolled sheet hot rolled steel, without additional processing; Cold-rolled steel sheet, without additional processing, at least 600 mm wide; rolled steel sheets in packages and rail profiles for railways and steel tram tracks; Other ferrous metal products, not included in other groups; Cold-drawn bars; Pipes,	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8 24.31; 24.20; 25.93.15		No leakage	presence/absence

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.35.		hollow profiles and their fitting steel; Wire, filler bars, rods, plates, coated electrodes or wire with flux core;				
1.36.	GOST R 50.05.01 , cl.7.2; non-destructive testing; non-destructive penetrating control substances, leak detection, mass spectrometric method	Hot-rolled steel sheet, without additional processing; sheet cold-rolled steel rolled products, 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 profile rail for iron roads and tram lines steel; Rolled products of black other metals, not included in others groupings; bars	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.42.22; 24.42.24; 24.42.26; 24.45.30.184; 24.45.30.183; 24.45.30.186; 25.93.15		No leakage	presence/absence

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.36.		cold drawn; bars, wire rod and profiles aluminum or aluminum alloys; Plates, sheets, stripes and tapes aluminum thick more than 0.2 mm; Pipes and tubes, and pipe fittings and tubes, aluminum; Plates, sheets, stripes and tapes titanium; Wire, bars, profiles titanium; Pipes and tubes titanium; Wire, filler bars, rods, plates, coated electrodes or wire with flux core;				
one.37.	GOST R 50.05.01, clause 7.4; Non-destructive testing; Non-destructive testing by penetrating substances. Leak detection, bubble method	Rolled sheet hot rolled steel, without additional processing; Rolled sheet cold-rolled steel, without additional processing, not wide	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.20; 24.42.22; 24.42.24; 24.42.26; 24.45.30.184; 24.45.30.183; 24.45.30.186		No leakage	presence/absence

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTI CS (INDEX)	DEFINITIO N RANGE
1.37.		less than 600 mm, 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; Pipes, hollow profiles and their steel fittings; bars, wire rod and profiles of aluminum or aluminum alloys; Plates, sheets, aluminum strips and tapes with a thickness of more than 0.2 mm; Pipes and tubes, and fittings for pipes and pipes, aluminum; Plates, sheets, titanium strips and tape; Wire, bars, titanium profiles; Titanium pipes and tubes; Wire, filler bars,	25.93.15			

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.37.		rods, plates, coated electrodes or flux cored wire;				
1.38.	GOST R 50.05.01- 2018, clause 7.5, item 8. 2, clause 8.5, cl.8.6; Non-destructive testing; other non- destructive testing methods	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; Pipes, hollow profiles and their steel fittings; bars,	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.31; 24.20; 24.42.22; 24.42.24; 24.42.26; 24.45.30.184; 24.45.30.183; 24.45.30.186; 25.93.15		No leakage	presence/absence

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.38.		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 for pipes and tubes, aluminum; Plates, titanium sheets, strips and tapes; Wire, rods, titanium profiles; Titanium pipes and tubes; Wire, filler bars, rods, plates, coated electrodes or flux cored wire;				
1.39.	GOST R 56512; NDT; magnetic particle method	Hot-rolled steel sheet, without additional processing; Rolled sheet cold-rolled steel, without additional processing, width not less than 600 mm;	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.20; 24.34.1; 24.31; 25.93.15		length of indicator patterns of defects	found/not discovered from 0,6 to 200(mm)

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.39.		hot-rolled steel; profiles open-ended hot working steel, rolled steel sheets in packages and steel rail profiles for railways and tramways; other ferrous metal rolled products, not included in other groups; pipes, hollow profiles and their steel fittings; Cold-drawn wire; Cold drawn bars; Wire, filler bars, rods, plates, coated electrodes or flux cored wire;				
1.40.	PNAE G-7-015-89; non-destructive testing; magnetic powder method	Hot-rolled steel sheet, processing; Rolled sheet cold-rolled steel, without	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		length of indicator patterns defects	found/not found from 0.6 to 200 (mm)

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.40.		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;				
1.41.	GOST R 50.05.06; Non-destructive testing;	Hot-rolled steel sheet,	24.10.3; 24.10.4; 24.10.6; 24.10.7;		length of indicator patterns	found/not found

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTI CS (INDEX)	DEFINITIO N RANGE
1.41.	magnetic particle method	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 wire; Cold drawn bars; Pipes, hollow profiles and their fittings steel; Wire, filler bars, rods, plates, coated electrodes or flux cored wire;	24.10.8; 24.34.1; 24.31; 24.20; 25.93.15		defects	from 0,6 to 200 (mm)

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.42.	RB-089-14 Non-destructive testing; external inspection and measurements	Hot-rolled steel sheet, without additional processing; Rolled 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 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		Deviations from geometric dimensions	found/not found
					Geometric dimensions	from 0.1 to 1000 (mm)
					Weld defects	found/not found
					Geometric dimensions of defects	from 0.1 to 1000 (mm)

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTI CS (INDEX)	DEFINITIO N RANGE
1.42.						
1.43.	RD 03-606; Non-destructive testing; external inspection and measurements	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 wire; Cold drawn bars; Pipes, hollow profiles and their steel fittings; bars, wire rod and aluminum profiles or	24.10.3; 24.10.4; 24.10.6; 24.10.7; 24.10.8; 24.34.1; 24.31; 24.20; 24.42.22; 24.42.24; 24.42.26; 24.45.30.184; 24.45.30.183; 24.45.30.186;25.93.15		Deviations from geometric dimensions Geometric dimensions Weld defects Geometric dimensions of defects	found/not found from 0,1 to 1000(mm) found/not found from 0,1 to 1000(mm)

ITEM N	DOCUMENTS ESTABLISHING RULES AND METHODS OF SURVEYS (TESTS) AND MEASUREMENTS	OBJECT NAME	OKPD 2 CODE	TN VED EAES CODE	DEFINED CHARACTERISTIC S (INDEX)	DEFINITION RANGE
1.43.		aluminum alloys; Plates, aluminum sheets, strips and tapes with a thickness of more than 0.2 mm; Pipes and tubes, and fittings for pipes and tubes, aluminum; Plates, sheets, titanium strips and tapes; Wire, rods, titanium profiles; Titanium pipes and tubes; Wire, filler bas, rods, plates, coated electrodes or flux cored wire;				

position of authorized person

signature of authorized person

initials, surname of authorized person