

Beloretsk Metallurgical Plant

- 2 Wire
- 16 Calibrated rolled products
- 17 Nails
- 18 Ropes
- 33 Metal cord
- 34 Strap

Vyartsilya Metal Products Plant

- 40 Wire
- 42 Nails
- 48 Wire cloth

COST

- 50 Calibrated rolled products

Industria Sarmei

- 58 Calibrated rolled products
- 60 Nails
- 62 Ropes
- 68 Welding electrodes and welding materials
- 72 Electrical conductors and conducting wires

Nemuno

- 84 Wire
- 86 Nails
- 92 Wire cloth, rods



Beloretsk Metallurgical Plant

wire

Product	Dimensions	Product specification
	Diameter, mm	
Steel alloy spring wire - surface finish group V, G, E (bars) - without surface finish N (bundles)	1,0-10,0	ГОСТ14963-78
Steel spring heat-treated wire - for valve springs - for springs of general purpose	1,2-5,5	ГОСТ1071-81
Carbon steel spring wire	0,8-5,5	ТУ14-4-119-88
	1,2-6,0	ТУ14-4-118-73
	5,0	
	0,20-6,0	ТУ14-4-823-77
	0,14-8,0	ГОСТ9389-75
	2,0	ТУ14-173-179-89
Carbon steel spring zinc-coated wire	0,6; 0,8	ТУ14-4-331-73
High carbon steel spring wire	0,20-4,50	ТУ14-4-122-73
Steel spring wire for domestic air conditioners	1,0	ТУ14-4-582-75

Steel grade	Steel specification	Use	Form of delivery
51ХФА, 60С2А	Spring alloy, ГОСТ14959-79	For manufacture of springs heat-treated after winding	Bundles group H. Bars groups V, G, E. Soft packaging (paper, cloth) according to ГОСТ. Bars of at least 3,0 mm in diameter should be packed in wooden boxes. Marking label
70ХГФА, 51ХФА, 68ГА, 68А	Spring alloy, ГОСТ14959-79, ГОСТ1071-81	For manufacture of springs	Bundles. Soft packaging (paper, cloth) according to ГОСТ. Marking label
M 70	High carbon, ТУ 14-1-1881-76 ТУ 14-173-164-88	For manufacture of VAZ motor-car springs	Bundles, coils. Marking label. Soft packaging
M 35; 50	Medium carbon, ГОСТ1050-88	For manufacture of VAZ motor-car springs	
M 50	High carbon, ГОСТ14959-79	For manufacture of VAZ motor-car springs	Bundles. Packaging, marking according to ГОСТ9389-75
M 50 85 У7 У10 У7А У10А and other	Carbon quality structural, ГОСТ1050-88. Spring carbon and alloy, ГОСТ14959-79. Tool non-alloy, ГОСТ1435-99	For manufacture of springs winding in cold condition and untempered	Bundles (bights). Paper, packing cloth or polymer film. Marking label
	Medium and high carbon: ГОСТ1050-88 ГОСТ14959-79 ГОСТ1435-99 ТУ 14-1-5317-95		Bundles of at least 0.2 mm in diameter - paraffined paper, boxes or cans. Bundles, coils of at most 0.2 mm in diameter paper, polymer film or nonwoven fabric or packing cloth. Marking label
M 70	ГОСТ14959-79	For manufacture of springs winding in cold condition and untempered	Bundles. Packaging, marking in concordance with ГОСТ9389 -75
M 60	High carbon ГОСТ1050-88	Intended for spires in special destination hoses	Bundles. Marking label. Packaging in metallic cans
У8, У9, У8А, У9А, У8ГА	Instrumental, ГОСТ1435-99		Bundles, coils. Packing, marking according to ГОСТ9389 -75
У8А	Tool, ГОСТ1435-99	For domestic air conditioners	Bundles, coils. Paper, film, cloth. Marking label



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Product	Dimensions	Product specification
	Diameter, mm	
Steel wire for spring washers	1,52x2,80 1,95x3,20 2,38x3,60 3,11x4,40 4,08x5,25 4,70x6,00	TY14-173-106-2001
	0,9-3,25x1,2-3,6	TY14-4-128-74
	square 0,6-5,0; rectangle (0,9-4,0)x (1,2-3,5); trapezium (3-4,5)x(4,0-6,0)	ГОСТ11850-72
Spring corrosion-resistant high-strength wire	0,11-2,51	TY 3-1002-77
Steel spring wire for pulp-extractors	0,8	TY14-173-92-98
Steel electrode wire - for welding (spreading) - for electrodes (E)	0,3-10,0 1,6-10,0	ГОСТ2246-70
Steel electrode copper-coated wire	0,8-1,6	TY14-4-1445-87
Steel electrode wire of the following steel grades СВ.08АА-ВН, СВ.08ХМАА-ВН, СВ.08ГТАА-ВН, СВ.10Х2ГМФТАА-ВН	3,0-5,0	TY14-1-4355-87
Steel spreading wire	0,8-8,0	ГОСТ10543-82
Bearing wire	1,4-11,0	ГОСТ4727-83

Steel grade	Steel specification	Use	Form of delivery
70, 65Г	Spring carbon and alloy ГОСТ14959-79	For manufacture of reduced washers	Bundles. Soft packaging TY, ГОСТ. Marking label
70(S и P not more than 0,035%, S+P not more than 0,06%), 65Г	Spring carbon and alloy ГОСТ14959-79	For manufacture of VAZ and KAMAZ motor-car springs	
		For manufacture of spring lock washers	
12X18H10T	High-alloy corrosion-resistant TY 3-1002-77	For manufacture of springs	Coils for diameters less than 0.51 mm, bundles for diameters exceeding 0.51-mm. Marking label
M 50, 55	Medium carbon ГОСТ1050-88	For manufacture of pulp-extractors	Bundles. Packaging, marking according to ГОСТ9389-75
СВ.08, СВ.08А, 08ГА, СВ.08АА	Weld low-carbon, weld alloy, weld alloy ГОСТ2246-70	For welding (spreading) and manufacture of electrodes	Diameter exceeding 0.5 mm bundles, soft packaging (paper, cloth) according to ГОСТ. Marking label. Diameter up to 0.5 mm packaging in wooden boxes. Marking label
СВ.08Г2С, СВ.18ХГС, СВ.08ХМ, СВ.08МХ, СВ.18ХМА, СВ.08ХМФА and other			
СВ.01Х19Н9, СВ.04Х19Н9, СВ.06Х19Н9Г, СВ.08Х19Н9Ф2С2, СВ.04Х19Н11М3 and other			
СВ.08Г1С	Alloy weld TY 14-1-582-73	For arc welding in atmosphere CO ₂ of VAZ motor-car components	Coils (plates), films, boxes
СВ.08АА-ВН, СВ.08ХМАА-ВН, СВ.08ГТАА-ВН, СВ.10Х2ГМФТАА-ВН	Low-alloy weld TY 14-1-4355-87	For machine welding in different media	Bundles. Soft packaging (paper, film, cloth). Marking label
Нп 30ХГСА, Нп 30Х13, Нп 40Х13	Spreading ГОСТ10543-82	For machine arc spreading	Bundles. Soft packaging (paper, film, cloth) according to ГОСТ. Marking label
ШХ15, ШХ15-Ш	Bearing ГОСТ801-78	For manufacture of balls, rollers and bearing rings	Bundles. Soft packaging (paper, film, cloth) according to ГОСТ. Marking label



Beloretsk Metallurgical Plant

Product	Dimensions	Product specification
	Diameter, mm	
Wire of precision alloys	0,4-3,0	TY14-1-3224-81
	3,2-10,0	TY14-1-3225-81
	0,5-1,4	TY14-1-4602-89
Round wire of precision alloys with high electrical-resistance and finer wire for resistance elements - bright wire - I, II, III class according to electrical resistance	0,009-0,40	ГОСТ8803-89
Wire of precision alloys with high electrical-resistance	0,2-6,0	ГОСТ12766.1-90
Wire of precision alloys with specified temperature coefficient of linear expansion - hard-drawn wire (Ø 0.1-3.6) - heat-treated wire (soft) Ø 0.1-0.4 mm	0,1-3,6	ГОСТ14081-78
Carbon steel wire for cold heading	1,0-6,0	ГОСТ5663-79
Carbon steel annealed wire of steel grade 70	3,0; 4,5; 5,5	TY14-4-777-76
Carbon steel wire	1,0; 1,2	TY14-173-171-89
High-alloy corrosion-resistant and heat-resistant steel wire - heat-treated (TS) - cold drawn (CD)	0,20-7,50	ГОСТ18143-72

Steel grade	Steel specification	Use	Form of delivery
X20H80	Precision alloys ГОСТ 109904-74	For resistance elements	Bundles (soft packaging), coils (rigid containers). Marking label
52H-ВИ (ВИ)	Precision alloys TY 14-1-4602-89	For manufacture of ferried contacts	Bundles. Soft packaging (paper, cloth)
X20H80, X20H80-ВИ, X15H60, X15H60-ВИ, H80ХЮД-ВИ	Precision alloys ГОСТ10994-74	For manufacture of resistance elements	Coils, wooden boxes. Marking label
X15Ю5, X15H60, X20H80-Н, X23Ю5Т, X27Ю5Т	Precision alloys ГОСТ10994-74	For heating elements and resistance elements	Diameter less than 0.6 mm coils. Rigid packaging (wooden boxes, drums, containers). Diameter exceeding 0.6 mm bundles. Soft packaging (paper, film, cloth) according to ГОСТ. Marking label
29HK	Precision alloys ГОСТ10994-74	For products with specified temperature coefficient of linear expansion	Diameter less than 0.45 mm - coils. Rigid packaging (wooden boxes, drums, containers). Diameter exceeding 0.45 mm - bundles. Soft packaging (paper, film, cloth) according to ГОСТ. Marking label
08, 08КП, 10, 10КП, 15, 15КП, 20, 20КП, 30, 35, 40, 45	Carbon quality structural ГОСТ1050-88	For products manufactured by cold heading	Bundles. Soft packaging (paper, cloth) according to ГОСТ. Marking label
70 (S - not more than 0,03%; P - not more than 0,025%; S+P not more than 0,05%; Ni not more than 0,10%; Cr - not more than 0,10%; Mn - 0,3-0,6%)	Spring carbon ГОСТ14959-79	For manufacture of VAZ motor-car components	Bundles. Soft packaging in concordance with TY. Marking label
M 60	Medium carbon ГОСТ1050-88	Intended for further hardening with tempering	Coils. Packaging, marking according to ГОСТ7372-79
12X18H10T, 12X18H9, 10X17H13M3T, 12X13-40X13 and other	High-alloy corrosion-resistant ГОСТ5632-72	For welded products to be operated in corrosive media	Diameter less than 0.50 mm on coils. Packaging in rigid containers. Diameter exceeding 0.50 mm - bundles. Soft packaging (paper, cloth) according to ГОСТ. Marking label



Beloretsk Metallurgical Plant

Product	Dimensions	Product specification
	Diameter, mm	
Carbon steel wire for meshes	0,3-8,0	TV14-4-1566-89
High-alloy wire for meshes - nonheat-treated - heat-treated	0,10-6,0	TV14-4-1571-89
Low-carbon steel wire of general purposes - bright hard-drawn - black heat-treated - galvanized	0,16-8,0 0,9-8,0 2,0-5,0	ГОСТ3282-74
Carbon steel wire for reinforcement of prestressed concrete structures: - round - die-rolled section	3,0 4,0 5,0	ГОСТ7348-81, DIN 488
Steel rope wire - uncoated - galvanized	0,18-4,0 0,18-3,0	ГОСТ7372-79, DIN 2078
Steel spoke wire	1,75-3,96, 4,5	TV14-173-21-92

Steel grade	Steel specification	Use	Form of delivery
M45, 50, 55 and other	Medium carbon ГОСТ1050-88 TV14-1-5317-95	For manufacture of corrugated meshes	Bundles, coils. Marking label. Soft packaging
12X18H10T, 12X18H9, 10X17H12M2T	High-alloy corrosion-resistant ГОСТ5632-72	For manufacture of filter and others meshes	Diameter less than 0,50 mm on coils. Packaging in rigid containers (boxes). Diameter exceeding 0,50 mm - bundles. Marking label
Cr 0; Cr 10-20	Low-carbon ГОСТ380-94 ГОСТ1050-88	General purpose	Bundles, coils, bights. Marking label. Diameter less than 0,5 mm cutlery paper and boxes. Diameter 0,5-1,0 mm - cutlery paper, Diameter exceeding 1,0 mm by consumer's request
M 70, 75, 80, 85	High carbon ГОСТ14959-79 ГОСТ1435-99 TV14-1-5317-95 TV14-15-113	For reinforcement of prestressed concrete structures	Bundles, bights. Without packaging
M 40-85 and other	Medium and high carbon ГОСТ1050-88 ГОСТ14959-79 ГОСТ1435-99 TV14-1-5317-95 TV14-1-1881-76	For manufacture of ropes and logging cables	Bundles, coils. Marking label. Bundles of diameter less than 0,4 mm - paraffined paper, boxes or cans. Diameter 0,4-1,0 mm - paper, polymer film or nonwoven fabric or packing cloth. Diameter exceeding 1,0 mm - paper, packing cloth
M 35, 40, 45	Medium carbon ГОСТ1050-88	For manufacture of motorcycle spokes, bicycles	Bundles. Marking label. Packaging according to ГОСТ3110-74



Beloretsk Metallurgical Plant

Product	Dimensions	Product specification
	Diameter, mm	
Medium carbon steel wire for cotton piles strapping	3,6; 3,8; 4,0	TY14-173-88-98
Steel galvanized heat-treated wire for cellulose baling	2,2-3,0	TY14-4-936-78
Steel galvanized high quality wire for logging cable armor	0,5-1,8	TY14-173-107-2001
Carbon steel wire for flexible roller	0,33; 0,38; 0,46; 2,35	TY14-4-121-72
Wire for flexible shafts	0,30-2,8 0,30-0,50 1,20 2,0	TY14-4-851-77
Steel galvanized wire for wire cores	1,5-4,50	ГОСТ9850-72
Steel copper-coated wire for bead rings	2,0	TY14-173-31-92
Steel wire for bead rings of tire and moto covers	1,0	TY14-4-382-73
Steel copper-coated wire for bicycle tire bead rings	2,0	TY14-4-1150-81

Steel grade	Steel specifaion	Use	Form of delivery
M 50-60	Medium carbon ГОСТ1050-88	For cotton piles strapping	Bundles. Marking label. Without packaging
M 45-55	Medium carbon ГОСТ1050-88	For cellulose baling	Bundles, coils. Polyethylene film or polyvinylchloride waterproof paper. Marking label
M 50-70 and other	Medium and high carbon TY14-1-5317-95 TY14-15-113-82 TY14-1-1881-76	For manufacture of logging cable armor	Coils. Marking label. Packaging according to ГОСТ7372-79
M 10, 45, 50	Low-carbon and medium carbon ГОСТ1050-88	For manufacture of VAZ motor car flexible rollers	Bundles. Packaging, marking according to ГОСТ9389-75
M 45-55	Medium carbon ГОСТ1050-88	For manufacture of flexible shafts	Bundles, coils. Paper, packing cloth or hessian cloth or polymer film. Marking label
M 50-80 and other	Medium carbon and high carbon ГОСТ1050-88 ГОСТ14959-79	For manufacture of uninsulated steel-aluminum and steel-bronze wire cores	Bundles, coils., bights. Marking label. Soft packaging
M 50-60	Medium carbon ГОСТ1050-88	For manufacture of bead rings	Bundles. Packaging, marking according to ГОСТ7372-79
M 50, 60	High carbon ГОСТ1050-88	For manufacture of bead rings of tire and moto covers	Bundles, coils. Marking label. Soft packaging
M 50-60, M 65	Carbon and low-carbon ГОСТ1050-88	For bead rings bicycle tires	Bundles. Packaging in two layers of polyethylene or polymer film. Marking label



Beloretsk Metallurgical Plant

Product	Dimensions	Product specification
	Diameter, mm	
Carbon steel wire for manufacture of high pressure hoses - bright - galvanized	0,30	TY14-4-1109-80
Steel galvanized wire	4,0; 5,0	TY14-4-1383-86
	0,20-0,50	TY14-4-1457-87
	0,18-3,0	TY14-4-1495-88
	4,0	TY14-4-789-76
Carbon steel wire for reinforcement of prestressed concrete structures	3,0	TY14-4-1681-91
Round wire and section high-temperature wire and corrosion-resistant wire	1,05 0,6x1,3	TY14-173-176-88
Steel corrosion-resistant wire to be used in media containing sulphuretted hydrogen, up to 6 %	1,8; 2,3; 2,5	TY14-4-1287-84
Steel high-carbon wire	0,030-0,30	TY14-1-1702-76

Steel grade	Steel specification	Use	Form of delivery
M 55, 60; Y9A and other	Medium carbon, tool ГОСТ1050-88 ГОСТ1435-99	For manufacture of high pressure hoses	Bundles, coils. Paraffined paper, cans, drums, containers. Marking label
M 45-55	Medium carbon ГОСТ1050-88	For manufacture of flexible control rods of signal and pointer centralization	Bundles. Packed in paper, polymer film or nonwoven materials or cloth of man-made fiber
M 50-60	Medium carbon ГОСТ1050-88	For manufacture of wires and cables	Bundles, coils of at least 5-10 kg. Packed in paraffined paper or packing double-layer paper and cans or drums or without packaging in cans or drums with application of silica gel
M 40-85 and other	Medium carbon and high carbon ГОСТ1050-88 ГОСТ14959-79 TY14-1-5317-95 TY14-1-1881-76	For manufacture of high quality	Bundles, coils. Packaging, marking according to ГОСТ7372-79
M 60, 70	High carbon ГОСТ14959-79	For manufacture of shipbuilding elements	Bundles. Paper, film, cloth. Marking label
M 65-85	High carbon ГОСТ14959-79	For reinforcement of prestressed concrete ties	Bundles. Marking label. Without packaging
06X16H15M2Г2ТФ Р-ИД (ЧС-68-ИД)	High-alloy corrosion-resistant TY14-131-962-2001	For manufacture of fuel rods for nuclear power objects	Bundles, coils. Marking label
10X17H13M3Т	High-alloy corrosion-resistant ГОСТ5632-72	For operation in and oil and gas media	Coils of up to 1.0 tons. Marking label
03X19H9Т-ВН, 03X18H10Т-ВН	High-carbon corrosion-resistant ГОСТ5632-76	For manufacture of microwire cloth	Bundles. Firm packaging (cases, cans, containers). Marking label



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Product	Dimensions	Product specification
	Diameter, mm	
Low-carbon steel wire of special section	0,45x0,9; 0,65x1,3; 0,9x1,8; 1,35x2,7; 1,5x3,0; 2,6x5,2	ТУ14-4-136-72
	2,0x4,0	ТУ14-4-137-73
Low-carbon steel wire	0,85; 1,50	ТУ14-173-124-2002
Structural steel wire	0,038-0,50	ТУ14-4-76-72

Steel grade	Steel specifaion	Use	Form of delivery
1кп; 10кп; 08кп and other	Carbon ordinary quality, ГОСТ380-94. Carbon quality structural ГОСТ1050-88	For manufacture of VAZ motor-car cotter-pins	Bundles. Soft packaging in concordance with ТУ. Marking label
10кп	Carbon quality structural ГОСТ1050-88	For manufacture of oil-level indicators for VAZ motor-cars	Bundles. Soft packaging in concordance with ТУ. Marking label
Ст 1-3	Carbon ordinary quality ГОСТ380-94	For manufacture of furniture staples	Ø0,85 – on coils, Ø1,50 – bundles. Without packaging. Marking label
10-20	Carbon structural quality steel ГОСТ1050-88	For different purposes	Coils. Rigid containers (boxes)



Beloretsk Metallurgical Plant

calibrated rolled products

Product	Dimensions, mm	Product specification
Calibrated rolled products	3,0-12,0	ГОСТ 10702-78
	3,0-11,0	ТУ 14-173-104-2003

Steel grade	Steel specification	Use	Form of delivery
10-50, 38XA, 38XГНМ	ГОСТ10702-78	For manufacture of fixing products by cold extrusion method	Bundles up to 200 kg. Soft packaging (paper, cloth).
10, 20, 12Г1Р, 20Г2Р, 30Г1Р, 38XГНМ, 38XA	ТУ 14-173-104-2003		

Beloretsk Metallurgical Plant

nails

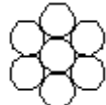
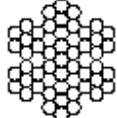
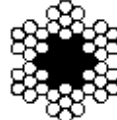


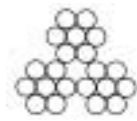
Product	Dimensions			Product specification
	Sketch	Diameter ρD, mm	Length, mm	
Wire structural circular section flat head nails		2,2-5,0	30-125	ГОСТ283-75 ГОСТ4028-63

Steel grade	Steel specification	Use	Form of delivery
Cr 0-3	Low-carbon ordinary quality ГОСТ380-94	Construction	Case, boxes






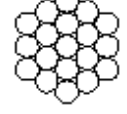
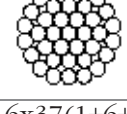

Beloretsk Metallurgical Plant

ropes

Product	Sketch/ construction	Size, mm	Steel specifaion	Use	Form of delivery
Single-rope lay of LK-O type	construction 1x7(1+6) (uncoated, galvanized) 	0,65-7,40	ГОСТ3062-80 DIN EN 12385	Freight - F	The length can be determined by the customer. The standard length - 200 meters regardless of the diameter of the piece
	construction 6x7(1+6)+1x7(1+6) (uncoated, galvanized) 	1,9-22,0	ГОСТ3066-80 DIN EN 12385		
Double-rope lay of LK-RO type	construction 6x7(1+6)+1 o.c. (uncoated, galvanized) 	2,2-23,0	ГОСТ3069-80 DIN EN 12385		
	construction 6x19(1+9+9)+1 o.c. (uncoated, galvanized) 	4,6-30,50	ГОСТ3077-80 DIN EN 12385		
	construction 6x19(1+9+9)+7x7(1+6) (uncoated, galvanized) 	6,4-19,0	ГОСТ3081-80 DIN EN 12385		
	construction 3x7(1+6) (uncoated, galvanized) 	1,35-3,0	ГОСТ3093-80		




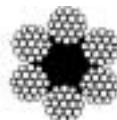




Beloretsk Metallurgical Plant

Product	Sketch/ construction	Size, mm	Steel specifaicon	Use	Form of delivery
Double-rope lay of LK-RO type	construction 6x36(1+7+7/7+14)+1 o.c. (uncoated, galvanized) 	15,0-60,5	ГОСТ7668-80 DIN EN 12385	Freight-personnel FP, freight	The length can be determined by the customer. The standard length - 200 meters regardless of the diameter of the piece
	construction 6x36(1+7+7/7+14)+7x7(1+6) (uncoated, galvanized) 	14,5-60,5	ГОСТ7669-80 DIN EN 12385		
Double-rope multifibre lay of LK-O type	construction 18x7(1+6)+1 o.c. (uncoated, galvanized) 	6,5-24,0	ГОСТ7681-80 DIN EN 12385	Freight - F	
Single-rope lay of TK type	construction 1x19(1+6+12) (uncoated, galvanized) 	1,0-12,0	ГОСТ3063-80 DIN EN 12385		
	construction 1x37(1+6+12+18) (uncoated, galvanized) 	1,6-9,90	ГОСТ3064-80 DIN EN 12385		
Steel double-rope lay of TK type	construction 6x37(1+6+12+18)+1 o.c. (uncoated, galvanized) 	5,0-15,50	ГОСТ3071-88 DIN EN 12385	Drums according to GOST11127-78. Packaging according to GOST3241-91, the length is determined by the client	








Beloretsk Metallurgical Plant

Product	Sketch/ construction	Size, mm	Steel specifaion	Use	Form of delivery
Steel double-rope lay of TK type	construction 6x19(1+6+12) + 1x19(1+6+12) (uncoated, galvanized) 	3,10-18,50	ГОСТ3067-88 DIN EN 12385	Freight F	Drums according to GOST11127-78. Packaging according to GOST3241-91, the length is determined by the client
	construction 6x37(1+6+12+18) + 1x37(1+6+12+18) (uncoated, galvanized) 	4,7-13,0	ГОСТ3068-88 DIN EN 12385		
	construction 6x19(1+6+12)+1 o.c. (uncoated, galvanized) 	3,3-13,0	ГОСТ3070-88 DIN EN 12385		
Double-rope lay of LK-R type	construction 6x19(1+6+6/6)+1 o.c. (uncoated, galvanized) 	3,8-39,50	ГОСТ2688-80 DIN EN 12385	Freight-personnel FP, freight - F	
	construction 6x19(1+6+6/6)+7x7(1+6) (uncoated, galvanized) 	5,1-27,0	ГОСТ14954-80 DIN EN 12385		
Stranded double-rope lay LK-R	construction 18x19(1+6+6/6)+1 c.c. (uncoated, galvanized) 	6,3-24,50	ГОСТ3088-80 DIN EN 12385	Freight F	




Beloretsk Metallurgical Plant

Product	Sketch/ construction	Size, mm
Double-rope lay of LK-3 type	construction 6x25(1+6; 6+12)+1 o.c. (uncoated, galvanized) 	19,5-48,50
	construction 6x25(1+6; 6+12)+7x7(1+6) (uncoated, galvanized) 	19,00-47,0
Steel double-rope lay of LK-O and TK type	construction 6x7(1+6)+1x7(1+6), LK-O type, construction 6x19(1+6+12)+1x19(1+6+12) (galvanized, stainless steel) TK type 	1,60-2,50 3,20-9,50
Stranded short-spinning double-rope lay LK-O and LK-R types	construction 12x7(1+6)+6x19(1+6+6/6)+1 o.c. (uncoated, galvanized) 	20,0-40,0
Steel calf line LK-RO type	construction 6x31(1+6+6/6+12)+7x7(1+6) or 6x31(1+6+6/6+12)+1 o.c. 	25,0-32,0 25,0-32,0

Steel specifaion	Use	Form of delivery
ГОСТ7665-80 DIN EN 12385	Freight-personnel FP, freight	The length can be determined by the customer. The standard length - 200 meters regardless of the diameter of the piece
ГОСТ667-80 DIN EN 12385		
ГОСТ2172-80	Aircraft	Drums according to GOST11127-78. Packaging according to GOST3241-91, the length is determined by the client
ГОСТ16828-81	Freight-personnel FP, freight	
ГОСТ16853-88 DIN EN 12385	For development deep-hole exploration drilling	



Beloretsk Metallurgical Plant

Product	Sketch/ construction	Size, mm
Reinforcement ropes	Construction (1x7) 	6,00-15,0
Steel double-rope lay with metal core	6x19(1+6+6/6)+1x19(1+6+6/6) (uncoated, galvanized)	10,5-31,0
	6x19(1+9+9)+1x19(1+9+9)	11,5-25,0
	6x36(1+7+7/7+14)+1x36(1+7+7/7+14) (uncoated, galvanized)	14,0-29,5
	6x8(1+7)+1x7(1+6)	1,8
Steel rope	6x36(1+7+7/7+14)+7x7(1+6) (uncoated, galvanized)	22,5 и 24,0
	18x19(1+6+12)+1 o.c. (galvanized)	20,5-41,0
	6x37(1+6+12+18)+1 o.c. (galvanized)	44,5
Double-rope lay	6x36(1+7+7/7+14)+1x36(1+7+7/7+14) (galvanized or uncoated)	17,50
Composite rope with organic and metal core (galvanized)		14-30
Steel rope for motor car safety belts	8x7(1+6)+1m.c. (galvanized)	6,1
Steel corrosion-resistant rope	6x7(1+6) +1x7(1+6)	3,0;6,0
	6x37(1+6+12+18)+1x30(0+12+18)	9,0;11,0
Steel corrosion-resistant rope for contact system elements	6x19(1+6+6/6)+7x7(1+6)	23,0
	6x25(1+6;6+12)+7x7(1+6)	18,0;21,0; 42,0

Steel specifaicon	Use	Form of delivery
ГОСТ13840-68	Large-block construction	The length can be determined by the customer. The standard length - 200 meters regardless of the diameter of the piece
TY 14-173-16-91	Freight and other	
TY 14-173-96-99		
TY 14-173-89-98		
TY14-4-285-73		Drums according to GOST11127-78. Packaging according to GOST3241-91, the length is determined by the client
TY14-4-412-73		
TY 14-4-796-77		
TY 14-173-93-99		
TY 14-173-95-99	For contact system elements	
TY14-173-105-2000		
TY14-4-273-73	Freight	
TY14-4-273-73		



Beloretsk Metallurgical Plant

Product	Sketch/ construction	Size, mm
Stainless steel rope	1x19(1+6+12)	0,9;1,6
	1x7(1+6)	0,3;0,66; 2,4;5,4;1,02
	6x7(1+6)+1x7(1+6)	0,9;1,15;1,2; 1,8;2,16;2,52; 3,06;3,6;4,5;5,4
	6x19(1+6+12)+1 o.c.	3,4;4,4
	6x19(1+6+12)+1x19(1+6+12)	3,6;5,1;6,0; 8,25;16,5;18,0
	6x37(1+6+12+18)+1 o.c.	11,0;13,0;24,0
6x37(1+6+12+18)+1x37(1+6+12+18)	7,14;10,5	
Steel double-rope lay LK-O type	6x19(1+9+9)+1x19(1+9+9) (galvanized)	17,0
Steel galvanized single-rope lay LK-R type	1x19(1+6+6/6)	4,7;6,6
Double-rope lay LK-R type	6x19(1+6+6/6)+1x19(1+6+6/6) (galvanized or uncoated)	12,0; 16,0
Double-rope lay LK-RO type	6x36(1+7+7/7+14)+1x36(1+7+7/7+14) (galvanized or uncoated)	30,0-52,0
	6x36(1+7+7/7+14)+6x7(1+6)+1x7(1+6) for excavators	39,0-64,0
	6x36(1+7+7/7+14)+7x7(1+6) (uncoated)	39,0; 45,5
	6x36(1+7+7/7+14)+1 o.c. (uncoated)	39,5
Steel double-rope lay of TK type	6x19(1+6+12)+1x19(1+6+12) (construction)	9,0; 12,0
	6x37(1+6+12+18)+1x37(1+6+12+18) (galvanized or uncoated)	9,80
	6x24(0+9+15)+7o.c. (galvanized)	7,40-33,50
	6x19(1+6+12)+1 o.c. (uncoated, galvanized)	14,5-27,0
Steel corrosion-resistant double-rope lay TK type	6x19(1+6+12)+1x19(1+6+12)	15,0
Steel aircraft non-spinning double-rope lay of «KSAN»	6x19(1+6+12)+1x19(1+6+12)	5,0
	6x7(1+6)+1x7(1+6) (galvanized)	1,8;2,5
	6x19(1+6+12)+1x19(1+6+12) (galvanized)	3,5;4,5

Steel specifaicon	Use	Form of delivery
TY 14-4-278-73	For different use	The length can be determined by the customer. The standard length - 200 meters regardless of the diameter of the piece
TY14-4-401-71	Freight	
TY 14-4-1296-84		
TY 14-4-625-75		
TY 14-4-902-78		
TY 14-173-118-2002		
TY 14-4-702-76		
TY 14-4-702-76		
TY 14-4-512-74		
TY 14-4-696-76		
TY 14-4-1185-82		
TY 14-173-14-91	General purposes	
TY 14-173-117-2002	Aircraft	
TY14-4-425-73		
TY 14-4-1266-83		

Beloretsk Metallurgical Plant

Product	Sketch/ construction	Size, mm
Steel aircraft rope with organic core	6x19(1+6+12)+1 o.c. (galvanized)	3,0; 5,1
Steel track rope for rope saws	6x7(1+6)+1x19(1+6+12) (galvanized)	4,6
Steel rope for special service conditions	6x19(1+6+6/6)+1 o.c. (galvanized)	9,10
	6x19(1+9+9)+7x7(1+6) (galvanized)	7,70; 12,0
	6x19(1+6+6/6)+7x7(1+6) (construction)	13,5
	18x19(1+6+6/6)+1 o.c. (construction)	13,50
	6x19(1+6+6/6)+1 o.c. (construction)	5,60
	18x19(1+6+6/6)+1 o.c. (construction)	21,0
Steel high-strength rope	1x19(1+6+12)	0,90;1,80
Stainless steel rope of special destination,	1x7(1+6)	0,60
Low-magnetic steel rope	1x37(1+6+12+18)	4,20
	1x7(1+6)	1,95; 3,00
	3x19(1+6+12)	8,60
	3x27(3+9+15)	14,50
	3x37(1+6+12+18)	12,0; 17,0
	3x7(1+6)	3,0
	6x19(1+6+12)+1 o.c.	3,30; 3,9; 4,5; 5,5; 6,5; 9,7; 11,0
	6x19(1+9+9)+1 o.c.	6,2
	6x19(1+9+9)+7x7(1+6)	21,50
	6x24(0+9+15)+7 o.c.	9,30-24,50
Steel rope unkinked	6x19(1+9+9)+1 o.c. (stainless)	6,20
	6x7(1+6)+1 o.c. (stainless)	3,30-6,80

Steel specificaion	Use	Form of delivery
TY 14-4-426-73	Aircraft	Drums according to GOST11127-78. Packaging according to GOST3241- 91, the length is determined by the client
TY14-173-120-2002	Freight	
TY 14-4-575-75		
TY 14-4-592-75	Freight-personnel FP	
TY 14-4-602-75	Freight	
TY 14-4-636-75		
TY 14-4-637-75		
TY 14-4-709-76		
TY 14-4-1035-79	Special destination	
TY 14-4-1306-85		
TY 14-4-612-75	Freight	
TY 14-4-646-75		



Beloretsk Metallurgical Plant

Product	Sketch/ construction	Size, mm
Steel high-strength rope	1x37(1+6+6/6+18)	8,0
Steel long-length rope	6x7(1+6)+1x7(1+6) (galvanized)	3,8;4,2; 4,6;5,6
Steel galvanized seizing rope	1x7(1+6)	1,80-4,0
Steel galvanized rope for mine winders	6x36(1+7+7/7+14)+1o.c. (galvanized)	18,0-58,5
Steel galvanized rope for GAZ motor car window raisers	8x7(1+6)+1x19(1+6)+12	2,0
Composite six-stranded rope with organic and metal core	6x24(0+9+15)(galvanized)	27,0;29,0
	6x18(0+9+9)+7x6(0+6) (galvanized)	14,0-19,0
	6x18(0+9+9)+III (galvanized)	14,0-29,0
Steel galvanized multi-stranded double-rope lay	12x7(1+6)+6x19(1+6+12)+1x19(1+6+12)	28,0

Steel specifaion	Use	Form of delivery
TY 14-4-675-75	Freight and other purposes	Drums according to GOST11127-78. Packaging according to GOST3241-91, the length is determined by the client
TY 14-4-1052-80		
TY 14-4-1215-83		
TY 14-4-1444-87		
TY 14-173-80-97		
TY 14-4-98-99		
TY 14-4-123-2002		

Beloretsk Metallurgical Plant

metal cord

Product	Dimensions, mm	Product specification
4J127	1x4x0,265	TY 14-173-91-98
9J123	(3x3)x0,23	
3J130	1x3x0,30	
9J115/27	3x0,15+6x0,265	ГОСТ 14311-85

Steel grade	Steel specifaion	Use	Form of delivery
Cr 70 cord	ГОСТ 14959	Tire reinforcement	Spool B40/B60, Box of 72 pieces



Beloretsk Metallurgical Plant

strap

Product	Dimensions, mm	Product specification
	Thickness x width, mm	
Iron flat strap for spiral bearing rollers	1,5-3,5x5,0-10,0	ГОСТ808-70
Iron flat average strength strap	0,3-4,0x0,5-10,0	ГОСТ10234-77
Flat strap of precision alloys with high electrical resistance	0,3-1,0x0,5-5,0	ГОСТ12766.5-90
Iron flat strap	4,0x7,7; 4,8x10,0; 4,5x8,0	ТУ 14-4-951-78
	1,0x1,75; 1,2x3,50; 1,0x4,00	ТУ 14-4-106-72
	0,12x3,0; 0,2x1,5; 0,2x2,0; 0,2x3,0; 0,28x3,2	ТУ 14-4-819-77
	2,30x5,5	ТУ 14-4-843-77
	0,6x5,9	ТУ 14-173-180-89
Iron flat copper-coated strap	0,5x0,70; 5x1,30	ТУ 14-4-109-72
Flat spring strap of steel grade 70	0,5x2,0; 1,5x4,5; 2,5x4,0	ТУ 14-4-379-73
Iron flat strap for compressor valve springs	1,5x3,0; 1,5x4,0; 0,55-6,0x2,0-7,0	ТУ 14-4-469-73

Steel grade	Steel specification	Use	Form of delivery
ШХ 10	Bearing, ГОСТ808-70	For manufacture of spiral bearing rollers	Bundles. Soft packaging in concordance with TY. Marking label
08, 08кп, 08пс, 10, 10кп, 10пс, 15, 15кп, 15пс, 20кп, 20пс, 30, 40, 50 65Г У7А, У8А, У9А	Carbon quality structural ГОСТ1050-88. Spring alloy, ГОСТ14959-79. Tool non-alloy, ГОСТ1435-90	For different purposes	Bundles or coils. Bundles Soft packaging according to ГОСТ. Coils - paper, wooden boxes. Marking label
X15H60, X15H60H, X20H80, X20H80H	Precision alloys, ГОСТ10994-74	For manufacture of heating elements and resistance elements	Coils. Packaging paper, wooden boxes. Marking label
35, 10, 10кп, 10пс	Carbon quality structural, ГОСТ1050-88	For manufacture of motor-car KAMAZ components	Bundles. Soft packaging in concordance with TY. Marking label
У8ГА	Tool non-alloy, ГОСТ1435-90	For manufacture of door-lock springs of motor-car VAZ	
12X18H9, 12X18H9T, 12X18H10T	High-alloy corrosion-resistant, ГОСТ5632-72	For manufacture of electrical equipment components of motor cars VAZ and KAMAZ	Coils. Packaging paper, wooden box in concordance with TY. Marking label
51XΦА	Spring alloy, ГОСТ14959-79	For manufacture of extra-stressed springs For manufacture of motor-car VAZ components	Bundles. Soft packaging in concordance with TY. Marking label
08кп, 10кп, 10	Carbon quality structural, ГОСТ1050-88	For manufacture of motor-car VAZ clips	Coils. Packaging paper, drums in concordance with TY. Marking label
70	Spring carbon, ГОСТ14959-79	For manufacture of motor-car VAZ components	Bundles. Soft packaging in concordance with TY. Marking label
65Г, 51XΦА	Spring alloy, ГОСТ14959-79	For manufacture of compressor valve springs	Bundles. Soft packaging in concordance with TY. Marking label



Beloretsk Metallurgical Plant

Product	Dimensions, mm	Product specification
	Thickness x width, mm	
Steel flat strap	0,25x2,95; 0,9x2,10; 0,70-3,0x1,2-10,0; 1,0-3,0x3,20-6,0	TY 14-4-607-75
	0,5x1,50	TY 14-4-707-76
	0,17-0,40x2,7-4,0	TY 14-4-856-91
	1,50x10,0	TY 14-4-869-78
Spring strap and details for springs in billets	Strap: 0.38x5.0 0.25x5.0 0.40x3.55 0.40x4.50 Billet: 0.38x5.0x460 0.38x5.0x510 0.40x4.5x410	TY 14-4-31-71

Steel grade	Steel specifaion	Use	Form of delivery
У8А, 50, 65Г, 51ХФА	Tool non-alloy, ГОСТ1435-90. Carbon quality structural ГОСТ1050-88. Spring alloy, ГОСТ14959-79	For manufacture of different purposes details	Bundles. Soft packaging in concordance with TY. Marking label
08кп, 10кп, 08, 10	Carbon quality structural ГОСТ1050-88	For cotton mesh lacing at fruits and vegetables packaging	Bundles. Packaging- metal half-rolls, drums in concordance with TY. Marking label
50, 70 «cord»	Carbon quality structural. ГОСТ1050-88, Spring carbon, ТУ14-1-1881-76	For manufacture of loom reeds	Bundles. Packaging paper, metal drums. Marking label
У7А, У8А	Tool non-alloy, ГОСТ1435-90	For manufacture of heald carriers of heddle frames	Bundles. Soft packaging in concordance with TY. Marking label
70С2ХА	Spring alloy, ГОСТ14959-79	For manufacture of winding springs to children's toys	Strap coils. Billets piles. Packaging paper, packing cloth (strap), paper, box (billet). Marking label



Beloretsk Metallurgical Plant

Product	Dimensions, mm	Product specification
	Thickness x width, mm	
Steel flat strap	0,3x5,50 0,3x5,56 0,38x5,56	TY 14-173-24-92
	0,3x2,00; 0,35x2,30; 0,40x2,60	TY 14-4-1108-81
	1,2x4,8; 1,65x5,2; 2,0x7,7; 2,0x8,7; 2,2x10,0	TY 14-4-1023-79
	2,5x9,0	TY 14-4-1338-85
Iron section annealed strap of high accuracy for TsMPL	0,7-1,0x3,5-4,0	TY 14-4-1310-84

Steel grade	Steel specifaion	Use	Form of delivery
45, 50, 65, 70 and other	Low-carbon quality structural, ГOCT1050-88. Spring carbon ГOCT14959-79	For manufacture of plate heald	Bights (bundles). Packaging- paper and metal drums. Marking label
50	Low-carbon quality structural, ГOCT1050-88		Bundles. Packaging paper, metal drum. Marking label
12X18H9, 12X18H9T, 12X18H10T	High-alloy corrosion-resistant, ГOCT5632-72	For manufacture of spherical swing coupling locks of line accessories and insulators	Bundles. Soft packaging in concordance with TY. Marking label
45	Low-carbon quality structural, ГOCT1050-88	For manufacture of core frames of soft furniture	Bundles. Soft packaging in concordance with TY. Marking label
50, 65 and other	Low-carbon quality structural ГOCT1050-88. Spring carbon ГOCT14959 -79	For manufacture of all-metal saw belt	Bundles. Soft packaging in concordance with TY. Marking label



Vyartsilya Metal Products Plant

wire

Product	Dimensions, mm	Product specification
Low- carbon steel wire for general purposes non-treated uncoated and heat treatment condition in oxidizing atmosphere.	Ø 1,2-6,0	ГОСТ3282-74
	In bars of 400-550 for Ø 1,2, with length of 1000-10000 for Ø 2,5-6,0	
Welding steel wire with non-coppered surface	Ø 1,6-6,0	ГОСТ2246 - 70
Wire class Bp-1 double-sided periodical cross section	Ø 3,0; 4,0; 5,0	ГОСТ6727- 80
	In bars with length 3000-6000 for Ø 4,0;5,0;6,0	
Polymer coated steel wire	Ø 2,8-3,0	ТУ14-178-290-95

Steel grade	Steel specifaion	Use	Form of delivery
Cr 1-3	ГОСТ380-94	For manufacture nails fence, packing, etc.	Coil mass nett 100-1300 kg; Marking steel polymer label.
			Coil mass nett 100-1300 kg; Marking steel polymer label
CB 08 A	ГОСТ2246-80	For making electrodes and deposition	Coil mass nett 100-1300 kg; Marking steel polymer label
Cr 1-3	ГОСТ380-94	For reinforced concrete	
Cr 1	ГОСТ380-94		Coil mass nett 40 kg; Marking-steel polymer label



Vyartsilya Metal Products Plant

nails

Product	Dimensions, mm		Product specification
	Sketch	Diame-ter D, MM	
Wire round nails		1,6 1,8 2,0 2,5 3,0 3,5 4,0 5,0 6,0	32;40 23;40;50;60 40;50 50;60 70;80 90 100;120 120;150 150;200
Wire round nails		1,6 1,8 2,0 2,2 2,5 3,0	25;35 32;40;45 40;45 50 50;60 70;80
Round felt roofing nails		2,0 2,5 3,0	20;25 32;40 40
Round roofing nails		3,5	40

Steel grade	Steel specifaicon	Use	Form of delivery
Cr 1-3	Carbon of ordinary quality ГОСТ380-94	Construction	<p>Box from carton mass nett 0,5-1,3 kg;</p> <p>box from corrugated carton mass nett 1,0; 5,0; 10,0 kg;</p> <p>Pacing case from five ply corrugated carton 20-25 kg mass nett</p> <p>Wood case for packing nails to 1000 kg mass nett.</p> <p>Transport packet on pallet 500-1200 kg mass nett in thermoplastic or "stretch" - foil. When transport in two row in height? Wood eathing used.</p> <p>Box and packing case from corrugated carton have paper lable</p>



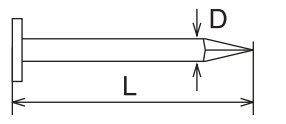
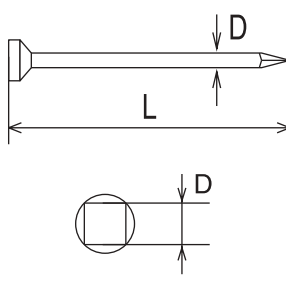
Vyartsilya Metal Products Plant

Product	Dimensions, mm			Product specification
	Sketch	Diameter D, mm	Length L, mm	
Building round nails		2,0 2,2 2,5 2,8 3,1	40 50 55 65 65;70	DIN 1151A
		2,0 2,2 2,5 2,8 3,1 3,4 3,8 4,2 4,6 5,0 5,5 6,0	40 50 55;60 65 65;70;80 80;90 100 100;110;120 130 140 160 180	DIN 1151B
		2,03 2,51 2,51 2,87 2,87 3,34 3,34 3,77 3,77 4,06 4,88	31,8 38,1 44,4 50,8 57,1 64,5 69,8 76,2 82,5 88,9 101,6	FF-N-105B
		2,0 2,36 2,65 3,0 3,35 3,75 4,0 4,5 5,6 6,0	25;30;40;45 30;40;50;60 40;45;50;60;65 50;60;65;75 50;60;65;75;90 65;75;90;100 75;90;100 90;100 125 150	BS 1202, часть 1

Steel grade	Steel specifaion	Use	Form of delivery
Ст 1-3	Low-carbon of ordinary quality ГОСТ380-94	Construction	<p>Box from carton mass nett 0,5-1,3 kg;</p> <p>box from corrugated carton mass nett 1,0; 5,0; 10,0 kg;</p> <p>Pacing case from five ply corrugated carton 20-25 kg mass nett</p> <p>Wood case for packing nails to 1000 kg mass nett.</p> <p>Transport packet on pallet 500-1200 kg mass nett in thermoplastic or "stretch" - foil. When transport in two row in height? Wood eathing used.</p> <p>Box and packing case from corrugated carton have paper lable</p>



Vyartsilya Metal Products Plant

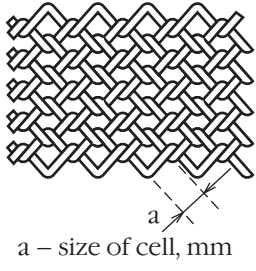
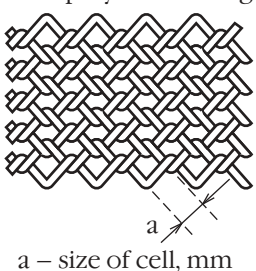
Product	Dimensions, mm			Product specification
	Sketch	Diame-ter D, MM	Length L, MM	
Building round nails 	Roofing nails	2,2 2,5 2,8 3,1	20;25;30;35 25;35 25;30;35;40 45;65;80	DIN 1160
Building square nails 		2,1 2,5 2,8 3,4 4,2 5,1	50 60 75 100 125 150	SFS 5081

Steel grade	Steel specificaion	Use	Form of delivery
Cr 1-3	Carbon of ordinary quality ГОСТ380-94	Construction	Box from carton mass nett 0,5-1,3 kg; box from corrugated carton mass nett 1,0; 5,0; 10,0 kg; Pacing case from five ply corrugated carton 20-25 kg mass nett Wood case for packing nails to 1000 kg mass nett. Transport packet on pallet 500-1200 kg mass nett in thermoplastic or "stretch" - foil. When transport in two row in height? Wood eathing used. Box and packing case from corrugated carton have paper lable



Vyartsilya Metal Products Plant

wire cloth

Product	Dimensions					
	Sketch	Number of wire	Diam. of the wire	Width of netting	Size of rolls	Weight of rolls
Single woven steel wire cloth with square meshes uncoated	Uncoated made of low-carbon thermal-untreated wire  a – size of cell, mm	15 20 25 35 45 50	1,8 1,8 2,0 2,0-2,5 2,0-2,5 3,0	800-2000	15	2,84 2,04 2,00 1,48-2,16 1,15-1,60 2,42
	With polymer coating  a – size of cell, mm	45	3,0			1,56

Product specification	Steel grade	Steel specifaion	Use	Form of delivery
ГОСТ5336-80	Cr 1	ГОСТ380-94	For garring of places, heat in sulation work and material screening	Delivered in rolls net mass up 80 kg; the size of rolls can be agreed with the client
TY 14-178-287-95			For garring of places	



COST

calibrated rolled products

Product	Dimensions		Product specification
	Section, mm	Length, m	
Drawn	Hexahedron 27-46	3-6	h12
Turned drawn	∅2-50	3-6	ГОСТ 7417(CLS4), DIN1652, DIN668, h11
	∅2-22	Coils of 150-600 kg	
	∅2-50	3-6	
	∅2-22	Coils of 150-600 kg	

Steel grade	Steel specificaion	Use	Form of delivery
St37-2; RSt37-2; St37-3; St44-2; St44-3; St52-3; St50-2; St60-2; St70-2 and other	Carbon of general purpose and structural ГОСТ535, DIN17100	Carbon of general purpose and structural	Weight of batch of the same size 0.6-1 t
C22; Ck22; Cm22; C25; CK25; Cm25; C30; CK30; Cm30; C35; CK35; Cm35; C45; CK45; Cm45; 60; CK60; Cm60 and other	Quality carbon ГОСТ1050, DIN17200	For mechanical engineering	
St37-2; RSt37-2; St37-3; St44-2; St44-3; St52-3; St50-2; St60-2; St70-2 and other	Carbon of general purpose and structural ГОСТ535, DIN17100	Carbon steel of general purpose and structural	Weight of batch of the same size 0.6-1 t Internal D 400-900, external D 600-1200. Weight 150-600 kg.
C22; Ck22; Cm22; C25; CK25; Cm25; C30; Ck30; Cm30; C35; Ck35; Cm35; C45; CK45; Cm45; C60; Ck60; Cm60 and other	Quality carbon ГОСТ1050, DIN17200	For mechanical engineering	Weight of batch of the same size 0.6-1 t
38Cr2; 38CrS2; 34Cr4; 34CrS4; 37Cr4; 37CrS4; 41Cr4; 41CrS4; 25CrMo4; 34CrMo4; 34CrMoS4; 42CrMo4; 42CrMoS4; 34CrNiMo6; 36CrNiMo4; 30CrNiMo8; 50CrV4 and other	Hardened and tempered steel for mechanical engineering ГОСТ1050, DIN17200	For mechanical engineering	
38Cr2; 38CrS2; 34Cr4; 34CrS4; 37Cr4; 37CrS4; 41Cr4; 41CrS4; 25CrMo4; 34CrMo4; 34CrMoS4; 42CrMo4; 42CrMoS4; 34CrNiMo6; 36CrNiMo4; 30CrNiMo8; 50CrV4 and other	Hardened and tempered steel for mechanical engineering ГОСТ1050, DIN17200	For mechanical engineering	Internal D 400-900, external D 600-1200. Weight 150-600 kg.



COST

Product	Dimensions		Product specification
	Section, mm	Length, m	
Turned drawn	Ø7-20	3-6	ГОСТ7417(CLS4), DIN668, h11
	Ø7-16		
	Ø7-22	Coils of up to 600 kg	
	Ø7-20	3-6	
	Ø7-22	Coils of up to 600 kg	

Steel grade	Steel specification	Use	Form of delivery
C55; C60; C67; 55Si7; 67SiCr5; 8Si7; 60SiCr7; 55Cr3; 50CrV4; 51CrMoV4 and other	Spring steel ГОСТ14959, DIN17222, DIN17221	For different purposes	Weight of batch of the same size 0.6-1 t
X12Cr13; X20Cr13; X30Cr13; X39Cr13; X46Cr13; X6Cr17; X6CrTi17; X5CrNi18.10; X2CrNi19.11; CrNiTi18.10; X5CrNiMo17.12.2; X2CrNiMo17.12.2; X6CrNiMoTi17.12.2 and other	Stainless steel ГОСТ5632, EN10088		Weight of batch of the same size 0.3-0.6 t
			Internal D 550-900, external D up to 1200. Weight up to 600 kg.
			Weight of batch of the same size 0.3-0.6 t
Cq15; Cq22; Cq35; Cq45; 41Cr4; 19MnB4 and other	Spring steel ГОСТ14959, DIN17222, DIN17221		Internal D 550-900, external D up to 1200. Weight up to 600 kg.



COST

Product	Dimensions		Product specification
	Diameter, mm	Length, m	
Turned drawn annealed	Ø2-16	3-6	ГОСТ7417(CLS4), DIN1652, DIN668, h11
	Ø2-22	Coils of 150-600 kg	
	Ø2-16	3-6	
	Ø2-16	3-6	
	Ø2-22	Coils of 150-600 kg	
	Ø7-16	3-6	ГОСТ7417 (CLS4), DIN668, h11
	Ø7-22	Coils of up to 600 kg	
	Ø2-16	3-6	DIN668, h11
	Ø2-22	Coils of 150-600 kg	
	Ø2-16	3-6	ГОСТ7417 (CLS4), DIN668, h11
	Ø7-20	3-6	
	Ø7-22	Coils of up to 600 kg	
	Ø2-16	3-6	
	Ø2-22	Coils of 150-600 kg	

Steel grade	Steel specifaicion	Use	Form of delivery
St37-2; RSt37-2; St37-3; St44-2; St44-3; St52-3; St50-2; St60-2; St70-2 and other	Carbon of general purpose and structural ГОСТ535, DIN17100	Carbon steel of general purpose and structural	Weight of batch of the same size 0.6-1 t
			Internal D 400-900, external D 600-1200. Weight 150-600 kg.
C22; Ck22; Cm22; C25; Ck25; Cm25; C30; Ck30; Cm30; C35; Ck35; Cm35; C45; CK45; Cm45; C60; Ck60; Cm60 and other	Quality carbon ГОСТ1050, DIN17200	For mechanical engineering	Weight of batch of the same size 0.6-1 t
38Cr2; 38CrS2; 34Cr4; 34CrS4; 37Cr4; 37CrS4; 41Cr4; 41CrS4; 25CrMo4; 34CrMo4; 34CrMoS4; 42CrMo4; 42CrMoS4; 42CrMoS4; 34CrNiMo6; 36CrNiMo4; 30CrNiMo8; 50CrV4 and other	Hardened and tempered steel for mechanical engineering ГОСТ 4543, DIN17200	For mechanical engineering	Weight of batch of the same size 0.6-1 t
			Internal D 400-900, external D 600-1200. Weight 150-600 kg.
C55; C60; C67; C67; 55Si7; 67SiCr5; 38Si7; 60SiCr7; 55Cr3; 50CrV4; 51CrMoV4 and other	Spring steel ГОСТ14959, DIN17222, DIN17221	Spring steel	Weight of batch of the same size 0.6-1 t
Cq15; Cq22; Cq35; Cq45; 41Cr4; 19MnB4 and other	Steel for cold extrusion and for deflection DIN1654	Steel for cold extrusion and for deflection	Weight of batch of the same size 0.6-1 t
			Internal D 400-900, external D 600-1200. Weight 150-600 kg.
S6-5-2 and other	High-speed steel ГОСТ19265, DIN17350	High-speed steel	Weight of batch of the same size 0.3-0.6 t
X12Cr13; X20Cr13; X30Cr13; X39Cr13; X46Cr13; X6Cr17; X6CrTi17; X5CrNi18.10; X2CrNi19.11; X6CrNiTi18.10; X5CrNiMo17.12.2; X2CrNiMo17.12.2; X6CrNiMoTi17.12.2 and other	Stainless steel ГОСТ5632, EN10088	Different purposes	Weight of batch of the same size 0.6-1 t
			Internal D 400-900, external D 600-1200. Weight 150-600 kg.
100Cr6; 100CrMn6 and other	Ball bearing steel ГОСТ801, DIN17230	Ball bearing manufacturing	Weight of batch of the same size 0.6-1 t
			Internal D 400-900, external D 600-1200. Weight 150-600 kg.



COST

Product	Dimensions		Product specification
	Section, mm	Length, m	
Turned drawn annealed drawn	Ø2-22	Coils of 150-600 kg	ГОСТ7417 (CLS4), DIN668, h11
			DIN668, h11
Turned annealed drawn	Hexahedron Ø8-19	3-6	h12
Turned drawn polished	Ø7-20	3-6	ГОСТ7417 (CLS4), DIN668, h11
	Ø2-16		
	Ø7-20		

Steel grade	Steel specifaion	Use	Form of delivery
100Cr6;100CrMn6 and other	Ball bearing steel ГОСТ801, DIN17230	Ball bearing manufacturing	Internal D 400-900, external D 600-1200. Bec 150-600 kg.
Cq15; Cq22; Cq35; Cq45; 41Cr4; 19MnB and other	Steel for cold extrusion and for deflection DIN1654	Steel for cold extrusion and for deflection	
C22; CK22; Cm22; C25; CK25; Cm25; C30; CK30; Cm30; C35; CK35; Cm35; C45; CK45; Cm45; C60; CK60; Cm60	Carbon of general purpose and structural ГОСТ535, DIN17100	Carbon steel of general purpose and structural	Weight of batch of the same size 0.6-1 t
C55; C60; C67; C67; 55Si7; 67SiCr5; 38Si7; 60SiCr7; 55Cr3; 50CrV4; 51CrMoV4 and other	Spring steel ГОСТ14959, DIN17222, DIN17221	Spring steel	Weight of batch of the same size 0.6-1 t
S6-5-2 and other	High-speed steel ГОСТ19265, DIN17350	High-speed steel	Weight of batch of the same size 0.3-0.6 t
X12Cr13; X20Cr13; X30Cr13; X39Cr13; X46Cr13; X6Cr17; X6CrTi17; X5CrNi18.10; X2CrNi19.11; X6CrNiTi18.10; X5CrNiMo17.12.2; X2CrNiMo17.12.2; X6CrNiMoTi17.12.2 and other	Stainless steel ГОСТ5632, DIN10088	Different purposes	Weight of batch of the same size 0.6-1 t



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Product	Dimensions		Product specification
	Section, mm	Length, m	
Round section	∅4-34	3-6	STAS 1800-87, DIN 1652, DIN 668, h11
Square section	□5-28	3-6	STAS 6554-80, DIN 1652, DIN 178, h12
Hexagonal section	hexagon ∅12-32	3-6	STAS 2305-89, DIN 1652, DIN 176, h12

Steel grade	Steel specifaion	Use	Form of delivery
ST37-2; RSt 37-2; ST44-2; ST 52-3; ST 50-2; C22, 25, 30, 35, 40, 45, 50, 55, 60 and other	STAS 500/2-80 STAS 880-89 STAS 791-88 DIN 17100 DIN 17200	Machines construction, steel structures	In bundles of 1-3 tons; wrapped in crepepaper, polycrpepaper and/or hessian cloth according to the contract conditions; products can be oiled delivered with PROTOIL 80 for a better protection
ST37-2; RSt 37-2; ST44-2; ST 52-3; ST 50-2; C22, 25, 30, 35, 40, 45, 50, 55, 60 and other	STAS 500/2-80 STAS 880-89 STAS 791-88 DIN 17100 DIN 17200	Machines construction, steel structures	In bundles of 1-3 tons; wrapped in crepepaper, polycrpepaper and/or hessian cloth according to the contract conditions; products can be oiled delivered with PROTOIL 80 for a better protection
ST37-2; RSt 37-2; ST44-2; ST 52-3; ST 50-2; C22, 25, 30, 35, 40, 45, 50, 55, 60 and other	STAS 500/2-80 STAS 880-89 STAS 791-88 DIN 17100 DIN 17200	Machines construction, steel structures	In bundles of 1-3 tons; wrapped in crepepaper, polycrpepaper and hessian cloth according to the contract conditions; products can be oiled delivered with PROTOIL 80 for a better protection



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nails

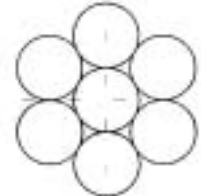
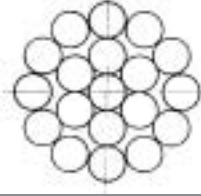
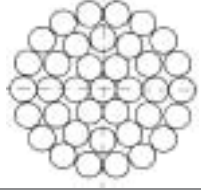
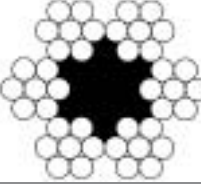

Product	Dimensions	Product specification
Round nails	1,2x20+7,0x250 1,2x20+4,0x100 16x16; 20x20; 25x25; 31x31 - FINISH: 2D;3D-5D; 6D-12D; 16D-20D. - SINKER: 3D-4D; 6D-10D; 12D-16D; 20D-40D; 60D. - COMMON: 2D-3D; 4D-9D; 10D-16D; 20D-40D; 50D-60D.	STAS 2111-90 SF 83-2001 DIN 1151/A,B DIN 1152 DIN 1159 FFN 105 B

Steel grade	Steel specifaion	Use	Form of delivery
St 37.2	DIN 17100-80	Construction	Cardboard boxes of 2,5; 5,0; 20; 25 kg, packed on pallets



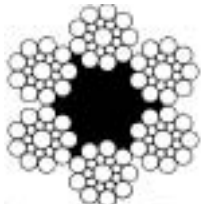

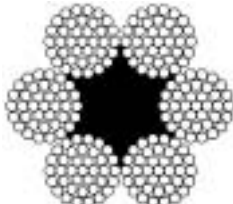

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ropes

Product	Sketch / construction	Size range, mm	Steel grade	Steel specifaion	Use	Form of delivery
Bright and galvanized steel wire ropes of simple construction	Construction 1x7 	3,0-9,0	DIN 3052-72 DIN 3051-72		Mechanical building and elevators	One or two fixed lengths / wooden reel, or manufacturing lengths. Each reel will be wrapped in polypropylene cloth
	Construction 1x19 	1,5-20,0	DIN 3053-72 DIN 3051-72			
	Construction 1x37 	3,0-24,0	DIN 3054-72 DIN 3051-72			
Bright and galvanized steel wire ropes of double construction	Construction 6x7 	5,0-28,0	DIN 3055-72 DIN 3051-72	DIN 2078-90	Hauling and different pulling	One or two fixed lengths / wooden reel, or manufacturing lengths. Each reel will be wrapped in polypropylene cloth
	Construction 6x19 	5,0-40,0	DIN 3060-72 DIN 3051-72			



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Product	Sketch / construction	Size range, mm
Bright and galvanized steel wire ropes of double construction	Construction 6x37 	8,0-52,0
Steel wire ropes of double combined construction	Construction 6x19 	9,0-44,0
	Construction 6x19 (6x25) Filler 	14,0-28,0
Steel wire ropes of double flexible	Construction 6x24+7 FC 	8,0-44,0

Steel grade	Steel specifaion	Use	Form of delivery
DIN 3066-72 DIN 3051-72	DIN 2078-90	Hauling and different pulling	One or two fixed lengths / wooden reel, or manufacturing lengths. Each reel will be wrapped in polypropylene cloth
DIN 3058-72 DIN 3051-72		Underground mechanic transport monorail, lifts	
DIN 3057-72 DIN 3051-72		Underground mechanic transport monorail, lifts	
DIN 3068-72 DIN 3051-72	Mechanical building and elevators		



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Product	Sketch / construction	Size range, mm
Galvanized steel wire rope for conveyor belts	Construction 7x7 (1x0.51 and 6x0.45)	3,8; (13000 N)
	Construction 7x19	5,3; (22000 N)
		5,85; (26000 N)
		6,6; (36000 N)
		7,0; (39000 N)
		8,0; (49000 N)
9,0; (63000 N)		

Steel grade	Use	Form of delivery
SF 106-03	For conveyor belts manufacturing	On metal reels type B450 having 750 mm dia. of flange or on wooden reel. Each reel will be wrapped in polypropylene cloth



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Product	Diameters		Product specification
	Section, mm	Length mm	
Welding electrodes E 48T FAVORIT	∅2,0	300	ГОСТ 9466/9467, STAS 1125/1-91, SR EN 499:E380R12, DIN 1913: E 43 32 R3 AWS A 5.1: E 6013
	∅2,5	350	
	∅3,25	350(450)	
	∅4,0	350(450)	
	∅5,0	450	
Welding electrodes E 48T SUPEREXTRA	∅2,0	300	ГОСТ 9466/9467, STAS 1125/1-91, SR EN 499:E380RC11, DIN 1913: E 43 32 R (C)3, AWS A 5.1: E 6013
	∅2,5	350	
	∅3,25	350(450)	
	∅4,0	350(450)	
	∅5,0	450	
Welding electrodes E 50 FAVORIT	∅2,0	300	ГОСТ 9466/9467, STAS 1125/1-91, SR EN 499:E420RR12, DIN 1913: E 43 32 R3 AWS A 5.1: E 6013
	∅2,5	350	
	∅3,25	350(450)	
	∅4,0	350(450)	
	∅5,0	450	
Welding electrodes E 51 B	∅2,5	350	ГОСТ 9466/9467, STAS 1125/1-91, SR EN 499:E423B42H10, DIN 1913: E 51 54 B20, AWS A 5.1: E 7018
	∅3,25	350(450)	
	∅4,0	350(450)	
	∅5,0	450	
Carbon steel wire for gas shielded arc welding Sg2	∅0,8; 1,0; 1,2; 1,6	Drums type K300	DIN 8559

welding electrodes and welding materials

Steel grade	Steel specification	Use	Form of delivery
S10	STAS 1126-87	<p>Welding in all position excepting vertical descendent position, in DC(-) or AC welding current, of carbon steel and low alloy steel</p> <p>Welding in all position except vertical descendent position, in DC(+) welding current, metallic construction of carbon steel and low alloy steel, static and dynamic hard solicited</p>	<p>In carton boxes of 4 or 5 kg in polyethylene bags, packed in waded carton boxes of 20 kg (5 or 4 boxes), stacked on europallets (1000 kg NETO)</p>
SG2	DIN 8559	For automatic and semiautomatic welding in shielding gas (CO ₂ or mixed gases) of metallic construction of carbon steel and low alloy steel	On metallic reels type K300 - DIN 8559, layer by layer, of abt. 15 kg. The reels will be packed in polyethylene bags with silica gel and carton boxes, max 64 reels on a wooden pallet wrapped in polyethylene foil



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Product	Dimensions		Product specification
	Section, mm	Length mm	
Welding wire S10	∅ 2,0; 2,5; 3,25; 4,0; 5,0	80-150 kg bundles	DIN 177: DIN 8557: S1 AWS A 5.17: EL12
Welding flux FB 10	Fraction 0,3-2,5 mm	In sacks	STAS 9477 AWS A 5.17: F7.A.0-EH14 AWS A 5.23: F7.A.2-ENi1 DIN 32522: FCS 1.6.5.DC
Welding flux FB 20			STAS 9477 AWS A 5.23: F7.A.2-ENi1 DIN 32522: FAB 1.6.5.DC
Welding flux FSM 37 B			STAS 9477 AWS A 5.17: F6.AZ-EL12 F7.AZ-EH14 DIN 32522: FMS 1.7.5.DC

Steel grade	Steel specifaiaon	Use	Form of delivery
S10	SR EN 756:S1	For manufacturing welding electrodes, oxy-acetylene and submerged arc welding of metallic construction of carbon steel and low alloy steel	In manufacturing coil of 80-150 kg, wrapped in polyethylene lined crepe paper
-	-	For submerged arc welding of metallic construction of carbon steel and low alloy steel	In polyethylene bags into paper bags (NETO 50 kg/bag)
-	-		
-	-		



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Product	Dimensions		Product specification
	Section, mm/ Cross-section, mm ²	Length m	
PVC covered copper conductor for fixed electric plant	∅ 1,38-11,0 (max.750 V) S=1,5-95 mm ²	In coils of 50-1000	SRCEI227-3/97, STAS6865-89
Copper flexible conductors PVC covered for indoor electric plant	∅ 1,38-11,0 (max.660 V) S=1,5-95 mm ²	In coils of 25-400	SRCEI227-3/97, STAS 9108-89
Steel common cables PVC covered (radial thickness of PVC layer is 1,5; 1,75 mm)	Strand ∅ 2,0; 2,5, cable ∅ 5,0; 6,0	In coils of various length	SF34-97
PVC covered soft wire (radial thickness of PVC layer is 0,5-0,6 mm)	∅ 1,5-2,5; ∅ 2,7-3,7	In coils of 300-1000	SF49-98
Aerial conduits for electric traction (for trolleybuses, electric trams and locomotives)	80 mm ² , 100 mm ²	Coils of 1000-1600 kg	STAS686-83

electrical conductors and conducting wires

Steel grade	Steel specifaicon	Use	Form of delivery
Copper wire, PVC grains	STAS 4130-77, STAS 7014-87	Steady electric plants	Coils or wooden drums of 50-1000 m in length.
Copper wire, PVC grains	STAS4130-77, STAS 7014-87	Steady and movable electric plants	For wires of 1,5-2,5 mm ² in coils or wooden drums of 25-400 m in length, 4,0-10 mm ² in coils or wooden drums of 25-200 m, 16-95 mm ² in coils or wooden drums of max. 50 kg
Wire for steel ropes, galvanized or mat aspect, PVC grains	STAS7014-87, DIN2078-90	General purposes	Coils of lengths requested by Customers
Soft black wire or soft steel galvanized wire, PVC grains	STAS7014-87, DIN17100-80, DIN1548	Manufacturing of fencing mesh, binding, alignments.	Coils of 300-1000 m length, bundles of 3-5 coils
Copper electrolytic wire Cu 99,97	STAS207/1-80	Aerial conductors for electric traction	Drums of 1000-1600 kg



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high carbon content wire

Product	Dimensions		Product specification
	Sizes, mm	Length, mm	
Bright and galvanized roping wire	0.3-4.0 mm for bright wire 0.3-2.0 mm for galvanized draw wire	In coils of 20-400 kg	DIN 2078-90 For all sizes min. 1370, min 1570, min.1770 N/mm ² and for 0.3-1.6 mm can be also manufactured with min. 1960 N/mm ² .
Spring steel wire	0.3-7.0 mm for classes A, B 0.3-1.0 mm for class C	In coil of 20-550kg	DIN 17223-84 A,B, C, classes
Stress relieved steel wire for prestressed concrete	Plain wire: 2.5; 3.0; 4.0;5.0; 6.0; 7.0 mm Indented wire: 4.0; 5.0 6.0; 7.0 mm	In coil of 100-550 kg	EN 138-79; BS 5896-80; ASTM A 421-84; JIS G 3536 Usually the indentation is made on 2 opposite sides but may also be made on 3 sides at 120 degrees. Surface finish is phosphated for the wire having a diameter over 4 mm. Only in normal relaxation condition can be guarantated.

Steel grade	Steel specificaion	Use	Form of delivery
High carbon content steel D45-D70	DIN 17140-83	For rope making	0.3-0.7 mm - 20-40kg/coil or - abt.25 kg/reels type BS60 0.7-1.4 mm - 70-120 kg/coil or 0.7-2.0 mm - 350-400 kg/Z2 spools 1.4-3.5 mm - 70-150 kg/coil 3.5-4.0 mm - 130-200 kg/coil Each coil be wrapped in double poly crepe paper The BS 60 reels will be wrapped in poly crepe paper put on wooden pallets or put in polyethylene welded bags in cardboard boxes. Each Z2 spool will be wrapped in crepe paper, 2 reels in a polyethylene welded bag on wooden pallet fixed by metallic stripes.
High carbon content steel D45-D70	DIN 17140-83	For spring making	0.3-0.7 mm - 20-40kg/coil 0.7-1.4 mm - 70-120 kg/coil 1.4-3.5 mm - 70-150 kg/coil 3.5-7.0 mm - 130-200 kg/coil 1.8-2.4 mm in orbital coil - min.200kg and max.550kg Each coil be wrapped in double poly crepe paper The orbital coils will be tied in 4 places with metallic stripes.
High carbon content steel D75-D90	DIN 17140-83	For prestressed concrete	In coil of 100-550 kg unwrapped or wrapped in crepe paper and hessian cloth

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Product	Dimensions		Product specification
	Sizes, mm	Length, mm	
Stress relieved seven wire strand for prestressed concrete	3/8 inch; 7/16 inch; 1/2 inch or other sizes as per client inquiry	In coil of 1000- 3000 kg	EN 138-79; BS 5896-80; ASTM A 416-84; JIS G 3536 The strand are manufactured in normal relaxation conditions (grade k 250 and k270 acc. ASTM)
Hot dipped galvanized steel wire	1,57-3,6 mm	In coil of 80-120 kg	ASTM B 498-93; A Class of galvanization 1.57 –1.90 mm - min. 198 g/mm ² zinc coated weight 1.91-2.28 mm - min. 214 g/mm ² zinc coated weight 2.29-2.64 mm - min. 229 g/mm ² zinc coated weight 2.65-3.04 mm - min. 244 g/mm ² zinc coated weight 3.05-3.55 mm - min. 259 g/mm ² zinc coated weight 3.56-3.60 mm - min. 274 g/mm ² zinc coated weight
Bright and galvanized cold drawn steel wire for concrete reinforcement – FIBIS type	0,4-3,0 mm	In coil of 20-450 kg	DIN 1548-70, DIN 177 Tensile strength N/mm ² class I – 1100-1500 class II – 1500-2000 class III – over 2000
Bronze coated bead wire	0.90; 0.96; 1.00; 1.27 mm		Regular tensile and upon request high tensile Standard characteristics for 0.96mm -deviation of size: ±0.02 mm -breaking force = min. 136 daN -elongation = min.5% on 254 mm length -torsion = min. 52 on 203 mm length The weight of bronze coated is 0.45-0.9 g/kg

Steel grade	Steel specificaion	Use	Form of delivery
High carbon content steel D75-D90	DIN 17140-83	For prestressed concrete	In coil of 1000-3000 kg tied up in min. 6 places and are wrapped in crepe paper and hessian cloth.
High carbon content steel D55-D65	DIN 17140-83	For ACSR	In coil of 80-160 kg, unwrapped or wrapped in poly crepe paper and/or hessian cloth.
Carbon content steel D8-D70	DIN 17100-80 or DIN 17140-83	For concrete reinforcement	0.3-0.7 mm - 20-40kg/coil or - abt.25 kg/reels type BS60 0.7-1.4 mm - 70-120 kg/coil 0.8-1.4 mm - abt.350 kg/Z2 spools 1.4-3.0 mm - 70-150 kg/coil Each coil will be wrapped in crepe paper The BS 60 reels will be wrapped in poly crepe paper put on wooden pallets or put in polyethylene welded bags in cardboard boxes. Each Z2 spool will be wrapped in crepe paper, 2 reels on wooden pallet fixed by metallic stripes.
	Special high carbon content steel: C=0.67-0.73% Mn=0.55-0.66% Si= 0.15-0.30% P= max.0.030% S= max.0.030%	For tire reinforcement	On Z2 spools - 400±20 kg Each Z2 spool will be wrapped in crepe paper, 2 reels in a polyethylene welded bag on wooden pallet fixed by metallic stripes. The packing sistem can be adapted upon client request.

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Product	Dimensions		Product specification
	Sizes, mm	Length, mm	
Brass coated steel wire for hose reinforcement	0,3; 0,38 mm		-deviation of size: ± 0.02 mm -tensile strength= 2300-2800 N/mm ² -loop strength = min.50%of tensile strength -elongation = max. 2.5 % -the weight of brass coating is min. 4 g/kg -Cu=70 \pm 5%
Oil tempered flat steel spring wire	10x1,7 mm 10x1,4 mm	In coil of 50-80 kg	-tensile strength= 1450-1600 N/mm ² -elongation = min.6%
Oil tempered steel wire for brushes	0.35; other size upon on request		-deviation of size: ± 0.02 mm -tensile strength= 1800-2200 N/mm ²

Steel grade	Steel specifaicion	Use	Form of delivery
High carbon content steel D68-D73	DIN 17140-83	For hose reinforcement	Metallic a spool type BS60 - gross weight = 21-26 kg - net weight = max.22.5 kg Wrapped in crepe paper put in cardboard boxes on wooden pallets or in wooden cases
High carbon content steel D53-D58	DIN 17140-83	For spring making	In coil of 50-80 kg. Each coil will be tied up in 3 or 4 places with soft wire. The wire is oiled and the coil is wrapped in double poly crepe paper.
High carbon content steel D58	DIN 17140-83	For brushes making	In coil of max. 10 kg. Each coil will be wrapped in crepe paper.

low carbon content wire

Product	Dimensions		Product specification
	Sizes, mm	Length, mm	
Cold drawn steel wire	0,7-1,12 mm tensile strength max. 1270 N/mm ² 1,18-2,80 mm tensile strength max. 1180 N/mm ² 3,0-4,0 mm tensile strength max. 980 N/mm ² 4,5-5,0 mm tensile strength max. 880 N/mm ² 6,0-8,0 mm tensile strength max. 780 N/mm ² 9,0-10,0 mm tensile strength max. 740 N/mm ²	Coils of 40-400 kg	STAS 889/89, DIN 177-88

Steel grade	Steel specifaicion	Use	Form of delivery
OL 37, St 37.2, SAE 1008-1010 C9D-C20D	STAS 500/2-80, SR EN 10016/2-94, DIN 17100-80, ASTM A 510-91	General purposes	Manufacturing coils of max. 40 kg for dia between 0,7 - 1,0 mm. Manufacturing coils of max. 50 kg for diameters of 0,9 - 1,2 mm. Manufacturing coils of max. 80 kg for diameters of 1,2 - 1,8 mm. Manufacturing coils of max. 150 kg for diameters of 1,6 - 5,0 mm. Manufacturing coils of max. 400 kg for diameters of 5,0 - 10,0 mm. Coils might be with or without packaging delivered. Manufacturing coils in weight of 40 up to 150 kg can be delivered in 3-5 coils bundled.



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Accurate denomination of products indicating the existent coating, type of section	Size range		Product specification
	Sizes, mm	Length, mm	
Black annealed steel wire	0,7-10,0 mm tensile strength max. 550 N/mm ²	In coils of 40-400 kgs	STAS 889/89, DIN 177-88
Steel wool wire	3,1 mm with tolerances +/-0,08 mm, tensile strength 700-1000 N/mm ² , elongation min. 4%, surface aspect phosphated drawn	In coils of 80-150 kgs	
Soft stranded steel wire 1x6	0,9-1,25 mm	G _{coils} = 5±0,25 kgs	SF 103-2002
Drawn galvanised steel wire of Ø 0,4 mm with low carbon other sizes upon request	Ø 0,4 ± 0,02 mm	Coils of min. 5 kg	OT 8-99

Steel grade	Steel specificaion	Use	Form of delivery
St 37.2, SAE 1008-1010, C9D-C20D	SR EN 10016/2-94, DIN 17100-80, ASTM A 510-91	General purposes	Manufacturing coils of max. 40 kg for diameters of 0,7 -1,0 mm. Manufacturing coils of max. 50 kg for diameters of 0,9 -1,2 mm. Manufacturing coils of max. 80 kg for diameters of 1,2 -1,8 mm. Manufacturing coils of max. 150 kg for diameters of 1,6 -5,0 mm. Manufacturing coils of max. 400 kg for diameters of 5,0-10,0 mm. Coils might be with or without packaging delivered. Manufacturing coils in weight of 40 up to 150 kg can be in 3-5 coils bundled.
%C:0,1-0,15 %Mn:0,75-0,95 %Si:max.0,05 %P:max.0,08 %S:max.0,04 %Cr:max.0,25 %Ni:max.0,25 %Cu:max.0,25 Other qualities upon request.		General purposes for steel wool making.	In coils of about 80-150 kgs wrapped in double poly crepe paper, 3-5 coils in a bundle tied up in 4 places with metallic stripes.
Black annealed wire and/or soft galv. Wire Galvanized soft wire	DIN 17100-80, DIN 177-88	Constructions	Coils in D _{int.} = 430-450 mm or 250-280 mm G _{coils} = 5±0,25 kg
Soft electrolythic galvanized wire, Ø 0,8 mm	DIN 17100-80, DIN1548	General purposes	Coils of min. 5 kg, in bundles of 3-10 coils.



Industria Sarmei

Accurate denomination of products indicating the existent coating, type of section	Size range		Product specification
	Sizes, mm	Length, mm	
Soft galvanized steel wire	0,7-4,5 mm, T/S max. 55 kgs/sqmm	In coils of 15-150 kgs	DIN 177, DIN 1548-70
Soft hot dipped galvanized steel wire	1,8-5,0 mm, tensile strength max.55 kgs/sqmm, tolerances: +/-0,05 mm for 1,8-1,92 mm +/-0,08 mm for 1,93-2,4 mm zinc coating min. 40 g/sqm	In coils of 200-450 kgs	ASTM A641-71 a class "Regular coating"
Galvanized barbed wire yowa type	Wire diameter: 2,24+/-0,09 mm barb wire diameter: 2,0+/-0,09 mm tensile strength 55 kgs/sqmm, two central wires, 4 barbs, distance between the barbs, 80-110 mm, length of the barbs 20 mm+/-5 mm	In reels weighing 22 kgs	

Steel grade	Steel specificaion	Use	Form of delivery
ST 37	STAS 500/1-80, DIN 17100	General purposes	For Ø 0,7-0,95 mm Coil weight = 10-20 kg For Ø 1-1,4 mm Coil weight = 15-40 kg For Ø 1,5-4,5 mm Coil weight = 50-120 kg Coils can be with or without packaging in poly crep paper bundled in 3-5 coils.
St 37 SAE 1008-1010	DIN 17100, ASTM A 510/77	General purposes	Orbital coils for dia between 1,8-2,2 mm, tied in 4 places with metallic stripes. ID=min.360 mm, weight 200-450 kgs, wrapped or unwrapped. The bigger size over 2,7 mm in manufacturing coils of 100-160 kgs.
St 37	DIN 17100	General purposes	In reels weighing 22 kgs+/-2 kgs Upon request other weight reels can be produced max. weight of the reel is 30 kgs.



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wire

Product	Dimensions	Product specifications
	Diameter, mm	
Steel welding wire	1,6-5,0	ГОСТ 2246-70
Low-carbon steel wire for general purposes non-treated for general purposes - black treated - galvanized	1,0-6,0 1,0-6,0 1,8-6,0	ГОСТ 3282-74, DIN 177 ГОСТ 3282-74, DIN 177 ГОСТ 3282-74, DIN 1548
Low-carbon reinforcing wire for Bp-1 construction	3,0-5,0	ГОСТ 6727-80
Carbon construction wire for pressing	5,2-15,0	ГОСТ 10702-78
Barbed wire	cord - 2,2-2,8 thorns - 2,0-2,5	LST 224:1997 and scemes of the JOWA type

Steel grade	Steel specifications	Use	Form of delivery
CB-08, CB-08A	low-carbon wire for manufacturing welding wire TY 14-15-345-94 ГОСТ 7566-94	Welding (fuse), manufacturing of electrodes	Coils, marking label
Ст1кп, Ст1сп, Ст0	low-carbon ГОСТ 380-88	General purposes	Coils, bundles, reels, marking label, bundles, on pallets, boxes Polymer film
Ст1кп, Ст1сп	low-carbon ГОСТ 380-88	Reinforcing of concrete constructions	Coils, bundles, marking label
Ст10кп	ГОСТ 1050-74	Manufacturing of fixing constructions	Coils, bundles, marking label
Ст1кп, Ст1сп	low-carbon ГОСТ 380-88	Fencing	Coils, on pallets Polymer film



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nails

Product	Dimensions, mm			Product specifications
	Sketch	Diameter, mm	Length, mm	
Flat head construction nails		1,0-1,6	16-50	ГОСТ 4028-63 ГОСТ 283-75
Conic head construction nails		1,8-6,0	32-200	ГОСТ 4028-63 ГОСТ 283-75
Tarred nails		2,0-3,0	20-40	ГОСТ 4029-63 ГОСТ 283-75
Roofing nails		3,5	40	ГОСТ 4030-63 ГОСТ 283-75
Decoration nails		1,0-2,0	16-40	ГОСТ 4032-63 ГОСТ 283-75
Flat head tarred nails		1,4-2,0	25-45	ГОСТ 4034-63 ГОСТ 283-75
Conic head tarred nails		1,6-3,0	25-80	ГОСТ 4034-63 ГОСТ 283-75
Lost head nails		1,4-3,8	14-100	СТ3337912-01: 1997
Oval nails		1,25x2,0 4,0x6,0	20-100	СТ3337912-02: 1997
Pallet nails		4,2	38; 70; 90	TS3337912-05-95
Square nails		2,5x2,5- 6,0x6,0	40-180	Sketch № ABK-T-01
Flat head construction nails		1,0-1,6	15-30	DIN1151

Steel grade	Steel specifications	Use	Form of delivery
Ст1кп, Ст1сп	ГОСТ 380-88	Construction	<p>Box from corrugated carton mass 0,5; 1,0; 2,5; 5,0; 10,0.</p> <p>Box from 5-layer corrugated carton mass 20-25 kg.</p> <p>Box from corrugated carton for packing nails mass 1000 kg.</p> <p>Transport sack on pallet 500-1200 kg in thermocontractable film. Framed in wood when transported in two levels.</p>



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Product	Dimensions, mm			Product specifications
	Sketch	Diameter, mm	Length, mm	
Conic head construction nails		1,8-6,0	35-180	DIN1151
Lost head nails		1,0-3,8	15 - 100	DIN1151
Round plain head nails		1,4 - 6,0	15 - 150	BS1202:Part1:1974
Round lost head nails		1,0 - 3,75	15 - 75	BS1202:Part1:1974
Panel pins		1,0 -2,65	15 -75	BS1202:Part1:1974
Oval brad head nails		2,0x1,25 - 6,0 x 4,0	20 -100	BS1202:Part1:1974
Annular ringed shank flat head nails		2,0 - 5,0	20 - 100	BS1202:Part1:1974
Brads		1,2 - 5,7	12,7 - 127	FF-N-105B
Barrel nails		1,7 - 5,3	15,8 - 38,1	FF-N-105B
Casing nails		1,7 - 3,4	25,4 - 88,9	FF-N-105B
Sinker nails		1,7 - 5,3	28,6 - 120,6	FF-N-105B
Fine nails		1,0 - 1,8	12,7 - 38,1	FF-N-105B
Cooler nails		1,6 - 3,8	25,4 - 82,5	FF-N-105B

Steel grade	Steel specifications	Use	Form of delivery
Ст1кп, Ст1сп	ГОСТ 380-88	Construction	<p>Box from corrugated carton mass 0,5; 1,0; 2,5; 5,0; 10,0.</p> <p>Box from 5-layer corrugated carton mass 20-25 kg.</p> <p>Box from corrugated carton for packing nails mass 1000 kg.</p> <p>Transport sack on pallet 500-1200 kg in thermocontractable film. Framed in wood when transported in two levels.</p>



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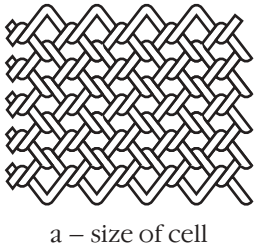
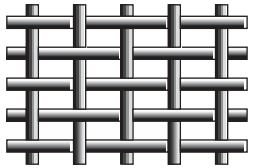
Product	Dimensions, mm			Product specifications
	Sketch	Diameter, mm	Length, mm	
Common nails		1,8 - 5,7	25,4 - 127	FF-N-105B
Finishing nails		2d - 20d	25,4 - 101,6	FF-N-105B
Flooring nails		2d - 16d 1,8 - 3,8	25,4 - 88,9	FF-N-105B
Lath nails		2d - 3d 1,6 - 1,8	25,4 - 28,6	FF-N-105B
Underlayment nails		2,0 - 2,9	25,4 - 60,3	FF-N-105B
Escutcheon nails		1,2 - 2,3	12,7 - 50,8	FF-N-105B
Box nails		2d - 60d 1,7 - 4,9	25,4 - 152,4	FF-N-105B
Grooved nails		2,0-5,0	25-150	According to scheme
Staples		1,6-4,6	16-46	DIN 1159 FF-N-105B

Steel grade	Steel specifications	Use	Form of delivery
Ст1кп, Ст1сп	ГОСТ 380-88	Construction	Box from corrugated carton mass 0,5; 1,0; 2,5; 5,0; 10,0. Box from 5-layer corrugated carton mass 20-25 kg. Box from corrugated carton for packing nails mass 1000 kg. Transport sack on pallet 500-1200 kg in thermocontractable film. Framed in wood when transported in two levels.
		Wire fixing	Box from corrugated carton mass 2,5; 5,0 kg. Box from 5-layer corrugated carton 20-25 kg. Transport sack on pallet 500-1200 kg in thermocontractable film. Framed in wood when transported in two levels.



Nemuno

wire cloth

Product	Sketch	Dimensions					Product specifications
		No of wire cloth	Diameter of wire, mm	Width, mm	Length of bundles, mm	Weight 1 m ² , kg	
Steel woven wire cloths single: Low-carbon galvanized wire cloth		12-100	1,2-5,0	800-2000	10; 15; 20	1,56-3,6	ГОСТ 5336-80
Woven wire cloths with square cells		4; 10; 12	1,0; 1,2	1000	20; 30	0,97-2,59	ГОСТ 3826-62

Steel grade	Steel specifications	Use	Form of delivery
Ст1кп, Ст1сп	ГОСТ 380-88	Fencing, warming, fixing in excavation in mines, filtering	In rolls or bundles of 10 rolls. Rolls' ends are packed in polyethylene sacks. Size of the roll and diameter of wire can be negotiated with customer.
Ст1кп, Ст1сп	ГОСТ 380-88	Dispersing of free-flowing substances, fencing, warming of industrial equipment	In rolls

rods

Product	Dimensions	Product specifications
	Diameter, mm	
Rods	∅ 2,5-10 mm Length 80-6000 mm	According to schemes

Steel grade	Steel specifications	Use	Form of delivery
Ст1кп, Ст1сп	Low carbon ГОСТ 380-88	Construction	Bundles, pallets

