

STAINLESS STEEL
**WIRE RODS
& WIRES**





STAINLESS STEEL WIRE RODS AND WIRES

This division is engaged in manufacturing stainless steel wire rods and wires. The quality of our product is well established in the international market.

Wires manufactured in this division are mainly used in industries like ship building, medical, agriculture, springs, vineyard, chemical, petroleum, automobile, weaving, braiding, fasteners, food processing, paper mills, welding electrodes and house hold applications.

This division is capable of producing wire rods in extensive size ranges from 5.5mm to 39.5mm and wires from 0.09mm to 15mm.

Our wire rod division is well equipped with a fully automatic wire rod mill and solution annealing, soft annealing and pickling plants with high end automation facilities, and proven quality standards.

Our wires division is well-equipped for producing high quality products having in-house facilities for solution annealing, bright annealing (continuous strand annealing), dry and wet wire drawing, high speed drawing, medium wire pattern laying, fine wire spooling, layer winding, random winding, TIG wire straightening, and cutting facilities.

Grade:

ASTM:

201, 202, 204Cu, 301, 302, 303, 304, 304Cu, 304HC, 304L, 304H, 310, 310S, 312, 314, 316, 316L, 316LN, 316Ti, 316LCu, 321, 410, 420, 430, 430L

DIN/EN:

1.4301, 1.4306, 1.4307, 1.4310, 1.4401, 1.4404, 1.4567, 1.4841, 1.4842, 1.4541, 1.4845, 1.4570, 1.4571, 1.4578, 1.4597, 1.4362, 1.4370 and 1.4016

Electrode Grades:

ER304, ER304L, ER307, ER307S1, ER308, ER308L, ER308LSi, ER310, ER316, ER316L, ER316LSi, ER347, ER347S1, ER309, ER309L, ER430, ER420

*Specialized Grades – As per customer's requirements

Specifications:

As per ASTM, DIN, BS, JIS, NACE, AWS, GOST, etc. international standards and customer specific requirements.

Product Range and Sizes:

Description	Size Range
Medium / Thick wire	0.80 to 16.00 mm
Welding wire	MIG – 0.8 to 1.6 mm, TIG – 1 to 4 mm, Core wire – 2.0 to 5.0
Cold heading wire	2.00 to 16.00 mm
Fine wire	0.09 to 0.70 mm
Electro Polish wire	1.0 to 12.0 mm
Spring wire	0.10 to 12.0 mm
Rope wire	0.10 to 4.0 mm
Redraw wire	0.70 to 5.0 mm
Tie wire (soft range)	0.7 to 4.0 mm
Tie wire (bright drawn)	1.60 to 4.0 mm
Nail wire	1.50 to 16.0 mm
Conveyor belt wire	1.60 to 4.0 mm
Staple Pin wire	0.80 to 1.6 mm
Nickle coated spring wire	0.80 to 1.6 mm
Nicket coated base wire for spring	2 to 4 mm

A. GMAW (MIG) – GAS Metal Arc Welding Wire



MIG wire bright drawn bright finish / soap drawn (de-coated) matte finish in precision layer wound spools

Sr. No.	Sizes (Inches)	Sizes (mm)	SD 200 Plastic Spools	SD 300 Plastic Spools	K 300 Metallic Basket Spools
1	0.033"	0.838	10 lbs/5 KGs	25 lbs/12.50 KGs 30 lbs/15.00 KGs	25lbs / 12.50 KGs 30lbs/15.00 KGs
2	0.035"	0.889			
3	0.040"	1.016			
4	0.045"	1.143			
5	0.062"	1.575			

- Spools packed in cardboard boxes, finally packed in wooden boxes / pallets
- We also offer customized packing and labelling solutions as per customer requirements and drawings

B. GTAW (TIG) – GAS TUNGSTEN INERT ARC WELDING WIRE


Tig Wire Bright Drawn Bright Finish in cut length 13.79 inches / 350 – 2000 mm

Sr. No.	Sizes (Inches)	Sizes (mm)	Plastic Tubes	Packing Type 5 Tubes in one corrugated box 1000 lbs/ 500 KGs wooden box
1	0.0300"	0.800		
2	0.0350"	0.900		
3	0.0400"	1.000		
4	0.0450"	1.200		
5	0.0620"	1.600		
6	0.0800"	2.000		
7	0.0930"	2.400		
8	0.1250	3.200		
9	0.1560"	4.000		

- Tubes packed in cardboard boxes, finally packed in wooden boxes / pallets
- We also offer customized packing and labelling as per customer requirements
- Grade and size embossed on both the sides of box for size 1.60mm (0.062") and above
- Customised marking such as: heat no., brand name, batch no., etc. possible on request

C. SAW – SUBMERGED ARC WELDING WIRE

SAW wire bright drawn bright finish / soap drawn (de-coated) matte finish in precision layer wound spools

Sr. No.	Sizes (Inches)	Sizes (mm)	Layer wound coils
1	0.0620"	1.600	
2	0.0800"	2.000	
3	0.0930"	2.400	
4	0.1250"	3.200	
5	0.1560"	4.000	

- Spools packed in cardboard boxes, finally packed wooden boxes / pallets
- We also offer customized packing and labelling as per customer requirements and drawings

D. MMAW – MANUAL METAL ARC WELDING WIRE

MMAW wire bright drawn bright finish in cut length / coils

Sr. No.	Sizes (inches)	Sizes (mm)	Cut Length	Continuous Coil	Loose Coils	
1	0.0620"	1.600				
2	0.0800"	2.000				300, 350, 1000, 2000mm, 12", 14", 40", 79" Inch
3	0.0930"	2.400				
4	0.1250"	3.200				
5	0.1560"	4.000				

- We also offer customized packing and labelling as per customer requirements and drawings



Annealed / Soft Wire:

Size: 0.09 – 7.00 mm

Packing: SPOOL, Loose Coil, drum, Tube, Continuous Coil

Sizes		Type of Packing
0.09 – 2.5 mm	SPOOL DIN125, DIN160, DIN200, DIN250, DIN 355	
0.71 – 10.00 mm	Loose Coil	
0.80 – 1.60 mm	Drum, Tube & carrier	

Spring Hard Wire (Bright Finish)



Size: 0.15 – 12.00 mm

Packing: Loose Coil, Invertor coil, Metal spool, Plastic Spool

Sizes		Type of Packing
0.15 – 0.70 mm	SPOOL DIN125, DIN160, DIN200, DIN250	
0.71 – 12.00 mm	Loose Coil	
0.40 – 3.00 mm	Metal Spool DIN560, DIN760	

Spring Hard Wire Soap Coated Matte Finish

Size: 0.40 – 12.00 mm

Sizes	Type of Packing	
0.40 – 3 mm	Loose Coil Spool SH390, SH460, DIN 560 Metal, DIN 760 Metal	
3 – 12 mm	Loose Coil	

Bright Drawn Wire

Size: 0.09 – 16.00 mm

Sizes	Type of Packing	
0.09 – 2.5 mm	SPOOL DIN125, DIN160, DIN200, DIN250, DIN 355	
0.71 – 16.00 mm	Loose Coil	

Bright Drawn Wire

Size: 1.80 – 12.00 mm

Sizes	Type of Packing	
1.80 – 4.00 mm	Continuous Coil	
2.00 – 12.00 mm	ESPOOL/ LESPOLL	

Nickel Coated Spring Wire

Size: 0.09 – 16.00 mm

Sizes	Sizes mm	Type of Packing
1	0.80 – 1.60	
3	2.00 – 4.00	

Supply Conditions:

Wires: Soft finish wires with matte or bright condition, 1/8 hard, 1.4 hard (suitable for electro polish quality), 1/2 hard, 3/4 hard, full hard with coated or de-coated condition.

Types of Packaging:

- M.S. carrier packaging
- Basket spools packaging
- Carton case packaging
- Spools packaging
- Packing in corrugated drums
- Pattern layered coils packaging
- Packing in corrugated boxes
- Euro coil packaging
- Packing in spiral corrugated tubes
- Mill coil packaging

Testing Facilities:

- Computerised tensile testing machine (capacity range 20kg to 40 ton)
- Bend testing, wrap testing, torsion testing machine
- Hardness testing machine
- Microscope with image analyser with micro photo facilities
- IGC test facilities
- Cold upset test facility
- PMI tester (Niton gun X-ray analyser)
- Spectro and Leco analysers for chemical composition-optical emission spectro and gas analysers
- Radioactive contamination testing

Applications of Wires:

Wires: Soft finish wires with matte or bright condition, 1/8 hard, 1/4 hard (suitable for electro polish quality), 1/2 hard, 3/4 hard, full hard with coated or de-coated condition.

Product	Applications
Welding wire	For electrode core wire, submerged arc welding wire, TIG and MIG welding wire
Cold heading wire	For nut, bolt, tapping screws, machine screw, Philip head screws, wood screw, screw cross head
Weaving / braiding /knitting wire	For meshes, nets, screens, conveyer belts, kitchen appliances, wire cloths
Electro polish wire	For pet cages, kitchen ware, grill racks, decorative handles, wire baskets
Spring wire	For corrosion resistant springs, heat resistant springs, electronic and electrical appliance
Rope wire	For corrosion and wear resistant wire ropes
Redraw wire	For further drawing into fine and superfine wires
Tie wire	For fastening cables, garden wattles, wattled walls, fencing
Staple wire	For corrosion resistant industrial staple
Nail wire	For corrosion resistant nails





Geltungsbereich der Überprüfung / Scope of Approval:



Hersteller / manufacturer:	Viraj Profiles Ltd. - Wire Division, G12, 1/2, 1/4 M.I.D.C. Tarapur Industrial Area, Boiner - 401506, Dist - Palghar Maharashtra, India			
Anforderung / requirements:	VdTUV 1153 (EN 12074) / EN 13479 (EN 12074) / AD 2000-Merkblatt W 0			
Aktenzeichen / Nr + SAP number:	1328WL14185(2) / 8112.607.994			
Zertifikatnr. / Certificate no.:	AD 2000-Merkblatt W 0 / VdTUV 1153; CPR 2005/2011: EN 13479	07-203-1328-WP-1418/15 0045-CPR-1418		
Erzeugnisform / Type of Product:	Herstellerbezeichnung Brand name	Nennbezeichnung Designation by standard	VdTUV-Kennzeich-Nr. (Ausgabe/Version)	DN-Zertifikat (Gültigkeit) DN-Certificate (Validity)
Drahtelektrode / wire electrode	VIRAJ 308L Si	EN ISO 14343-A-G 23 12 L Si	18093.00 (08-2015)	Bedingt, / applied
	VIRAJ 308 L	EN ISO 14343-A-G 19 9 L	18090.00 (08-2015)	
	VIRAJ 316 L Si	EN ISO 14343-A-G 19 12 3 L Si	18094.00 (08-2015)	
	VIRAJ 316 L	EN ISO 14343-A-G 19 12 3 L	18098.00 (08-2015)	
	VIRAJ 307 Si	EN ISO 14343-A-G 13 8 Mn	18096.00 (08-2015)	
Schweißstab / wire rod	VIRAJ 308 L	EN ISO 14343-A-W 23 12 L	18038.00 (08-2015)	
	VIRAJ 316 L	EN ISO 14343-A-W 19 12 3 L	18062.00 (08-2015)	
	VIRAJ 308 L Si	EN ISO 14343-A-W 19 9 L Si	18033.00 (08-2015)	
	VIRAJ 308 L	EN ISO 14343-A-W 19 9 L	18095.00 (08-2015)	



Stainless Steel Wire Rods | IS 6527 : 1995



Stainless Steel Wire | IS 6528 : 1995



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