

ONE VISION MANY WORLDS



STAINLESS STEEL
WIRE RODS & WIRES



Stainless Steel Wire Rods & Wires

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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 5.5 mm to 39.5 mm and wires from 0.09 mm to 15 mm.

Our wire rod division is well equipped with a fully automatic wire rod mill and solution anealing, soft anealing 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 anealing, bright anealing (continuous strand anealing), 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.



Grades:

ASTM:

201, 202, 204Cu, 301, 302, 303, 304, 304Cu, 304HC, 304L, 304H, 310, 310S, 312, 314, 316, d16L, 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, ER307Si, ER308, ER308L, ER308LSi, ER310, ER316, ER316L, Er316LSi, Er347, ER347Si, 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

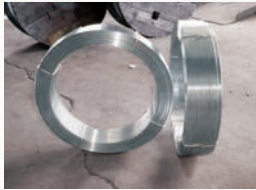
Tig Wire Bright Drawn Bright Finish in cut length 13.79 inches / 350 – 2000 mm

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	300, 350, 1000, 2000mm, 12", 14", 40", 79" Inch	600 2000 lbs 300 1000KGs	200 600 lbs 100 300KGs
2	0.0800"	2.000			
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 DINI 25, DINI 60, 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

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

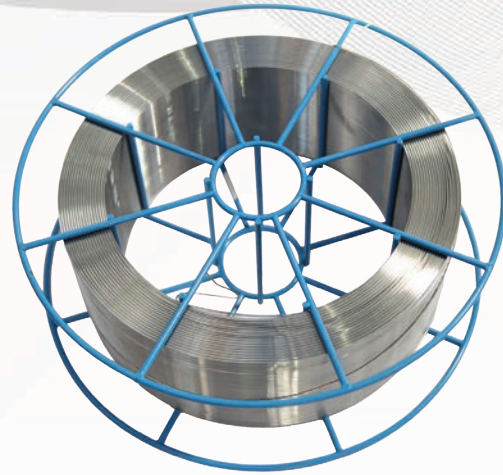
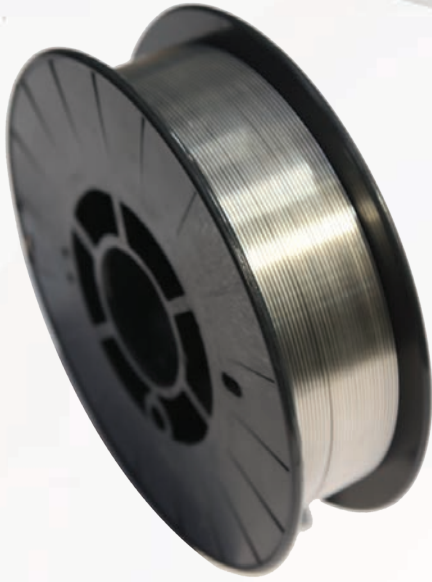
Testing Facilities:

- 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





CERTIFICATE

CONCERNING FACTORY PRODUCTION CONTROL
ACCORDING TO DIN EN 13479:2004, ANNEX ZA

The Certification Body for Structural Metallic Products of TÜV NORD Systems GmbH & Co. KG hereby confirms in accordance with the Regulation (EU) Number 305/2011 of 23 March 2011 that the company

Viraj Profiles Ltd. - Wire Division
G1/2, 1/3, 1/4 M.I.D.C. Tarapur
Industrial Area, Boisar - 401506,
Dist - Palghar, Maharashtra, India

has been certified with their construction product

Welding Consumables: Wire Electrodes and Wire Rods
according to EN ISO 14343

- Materials and dimensions according to the mentioned product standard -

accordant the regulations of DIN EN 13479:2004

for use in metallic structures or in composite metal or concrete structures

which was subject to an initial inspection of the products by the manufacturer and that the construction product is

subjected to a continuous factory production control.

The Notified Body conducted an initial inspection of the plant and of the factory production control and performs

continuous monitoring and conformity assessment of the factory production control.

The producer is responsible for the validity of the CE-marked structural products acc. to the product standard and the Declaration of Performance (DoP).

The detailed scope has been confirmed and is attachment to the inspection report.

Certificate No.: 0045-CPR-1418

Year of initial inspection: 2015


This certificate has been issued in accordance with the Construction Products Regulation and is valid provided the provisions of the harmonised technical specification indicated are complied with and the manufacturing conditions in the plant or the factory production control are not modified to a major degree.

Hamburg, 07. 08. 2015

Notified Body
Viraj Profiles Ltd.
TUV NORD Systems GmbH & Co. KG
Glockenstraße 31
D-22623 Hamburg
Germany

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WELDING CONSUMABLE CERTIFICATE

Certif.No.: 176332-264489-02

Report No.: BY244899

For of: MUMBAI

Date: 17-AUGUST-2015

THIS IS TO CERTIFY

THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF VIRAJ PROFILES LIMITED (WIRE DIVISION), ATTEND THEIR PLANT AT G-1/2, 1/3, 1/4 MIDC, TARAPUR INDUSTRIAL AREA, BOISAR, TAL-PALGHAR, DIST-TIRUNAVELI, MAHARASHTRA, INDIA ON THE 22 DAY OF MAY, 2015 AND ON SUBSEQUENT DATES, IN ORDER TO CARRY OUT A PLANT SURVEY OF FACILITIES AND ASSOCIATED QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES AND TO WITNESS AND REPORT ON THE INITIAL APPROVAL TESTING OF WELDING CONSUMABLES AND

THAT THE FACILITY IS CONSIDERED CAPABLE OF PROVIDING AN ACCEPTABLE UNIFORM PRODUCT, AND THAT EACH WELDING CONSUMABLE LISTED BELOW WAS FOUND IN COMPLIANCE WITH THE SPECIFICATION INDICATED AND IS ELIGIBLE TO BE PLACED ON THIS BUREAU'S APPROVED WELDING CONSUMABLES LIST IN THE GAS METAL ARC WELDING INCLUDING MIG/MAG WELDING.

TRADE NAME	SPECIFICATION	GRADE OR CLASS	SHIELDING GAS	POSITION	CURRENT POLARITY	SIZE
VIRAJ 309L**	AWS SFA 5.9	ER 308L	Argon	FLAT	DCEN	1.6-6mm
VIRAJ 308L**	AWS SFA 5.9	ER 308	Argon	FLAT	DCEN	1.6-6mm
VIRAJ 316L**	AWS SFA 5.9	ER 316L	Argon	FLAT	DCEN	1.6-6mm

**Manufacturer's Guaranteed Minimum Impact Strength: 327 @ -196 deg C

Asst. Trial, SURVEYOR

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WELDING CONSUMABLE CERTIFICATE

Certif.No.: 176332-264489-01

Report No.: BY244899

For of: MUMBAI

Date: 17-AUGUST-2015

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THAT THE FACILITY IS CONSIDERED CAPABLE OF PROVIDING AN ACCEPTABLE UNIFORM PRODUCT, AND THAT EACH WELDING CONSUMABLE LISTED BELOW WAS FOUND IN COMPLIANCE WITH THE SPECIFICATION INDICATED AND IS ELIGIBLE TO BE PLACED ON THIS BUREAU'S APPROVED WELDING CONSUMABLES LIST IN THE GAS METAL ARC WELDING INCLUDING MIG/MAG WELDING.

TRADE NAME	SPECIFICATION	GRADE OR CLASS	SHIELDING GAS	POSITION	CURRENT POLARITY	SIZE
VIRAJ 309L**	AWS SFA 5.9	ER 308L	Argon-95% Oxygen-2%	FLAT	DCEN	0.8-1.6 mm
VIRAJ 308L**	AWS SFA 5.9	ER 308	Argon-95% Oxygen-2%	FLAT	DCEN	0.8-1.6 mm
VIRAJ 316L**	AWS SFA 5.9	ER 316L	Argon-95% Oxygen-2%	FLAT	DCEN	0.8-1.6 mm
VIRAJ 316L**	AWS SFA 5.9	ER 316L	Argon-95% Oxygen-2%	FLAT	DCEN	0.8-1.6 mm
VIRAJ 316L**	AWS SFA 5.9	ER 316L	Argon-95% Oxygen-2%	FLAT	DCEN	0.8-1.6 mm

**Manufacturer's Guaranteed Minimum Impact Strength: 327 @ -196 deg C

Asst. Trial, SURVEYOR

WCM CERT Revision 5 Page 1 of 1

Geltungsbereich der Überprüfung / Scope of Approval:



Hersteller / manufacturer:	Viraj Profiles Ltd. - Wire Division, G1/2, 1/3, 1/4 M.I.D.C. Tarapur Industrial Area, Boisar - 401506, Dist - Palghar Maharashtra, Indien		
Anforderung / requirements	VdTUV 1153 (EN 12074) / EN 13479 (EN 12074) / AD 2000-Merkblatt W 0		
Aktenzeichen / file + SAP number	1326WL14185(2) / 8112 607 954		
Zertifikatsnr. / Certificate no.:	AD 2000-Merkblatt W 0 / VdTUV 1153: CPR 305/2011: EN 13479	07-203-1326-WP-1418/15	0045-CPR-1418
Erzeugnisform / Type of Product	Herstellerbezeichnung Brand name	Normbezeichnung Designation by standard	VdTUV-Kennblatt-Nr. (Ausgabe/edition)
Drahtelektrode / wire electrode	VIRAJ 309L Si	EN ISO 14343-A-G 23 12 L Si	18689.00 (08-2015)
	VIRAJ 308 L	EN ISO 14343-A-G 19 9 L	18690.00 (08-2015)
	VIRAJ 316 L Si	EN ISO 14343-A-G 19 12 3 L Si	18691.00 (08-2015)
	VIRAJ 316 L	EN ISO 14343-A-G 19 12 3 L	18694.00 (08-2015)
	VIRAJ 307 Si	EN ISO 14343-A-G 18 8 Mn	18696.00 (08-2015)
	VIRAJ 308 L Si	EN ISO 14343-A-G 19 9 L Si	18745.00 (08-2015)
Schweißstab / wire rod	VIRAJ 309 L	EN ISO 14343-A-W 23 12 L	18688.00 (08-2015)
	VIRAJ 316 L	EN ISO 14343-A-W 19 12 3 L	18692.00 (08-2015)
	VIRAJ 308 L Si	EN ISO 14343-A-W 19 9 L Si	18693.00 (08-2015)
	VIRAJ 308 L	EN ISO 14343-A-W 19 9 L	18695.00 (08-2015)

www.viraj.com

For Product Related Enquiries:

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