

The Journey of Venus Group

Branched out from its domestic trading division, in 1990, Venus started production of stainless steel bars & wires primarily focusing export market. Venus' production facility & sales office are located in Khopoli, about 80 kms from Mumbai, the commercial capital of India.

Venus currently exports to more than 50 countries and have made a successful footprint globally with its impeccable quality and service. Our success is driven by our people and their commitment to get results the right way - by operating responsibly, executing with excellence, applying innovative technologies and capturing new opportunities for profitable growth.

Venus supplies materials for a large number of applications used in aerospace, agricultural, automotive, consumer, energy, food, industrial, medical, marine, oil & gas, paper, ship building etc. In addition to an effective Quality Management System (QMS) compliant to ISO and TS standards, Venus holds a number of customer and product approvals as a testimonial for its high quality products.

We ensure that the returns are effectively invested back for improving production facility and welfare of the people working with us. We strive for continual improvement in the quality of products, competitiveness and service level to customers.





Product Approvals & System Certifications

ISO 9001:2008

ISO 14001:2004

OHSAS 18001:2007

CE, DB, CWB

NPC, RDSO

NABL

















Corporate Social Responsibility





For GMAW (MIG) Process

Diameter

mm	0.60	0.80	0.90	1.00	1.20	1.60
inch	0.025	0.030	0.035	0.040	0.045	0.062

Finish

Bright, Matt & Semi Bright

Packaging



12.5 kg. / 25lb., 15kg. 30 lb./ 33 lb. Layer wound Plastic spools/ Basket spool



5 kg. / 10 lb. Layer wound plastic spools / Basket spool



1 kg. / 2 lb. Layer wound plastic spools

SIZE	SIZE STANDARD SPOOLS										
MM	INCH	Metallic Basket K 300	SD 300/BS300	SD 200/BS200	SD 100						
0.60	0.025	10 kg./20 lb.	10 kg./20 lb.								
0.80 0.90 1.00 1.20 1.60	0.030 0.035 0.040 0.045 0.062	12.5 kg. / 25 lb. 15 kg. / 30 lb./33 lb.	12.5 kg./25 lb. 15 kg./30 lb./33 lb.	5 kg. (10 lb.)	1 kg. (2 lb.)						





Pail Packing System for Automatic Welding

MIG Wires in Fiber Drums of 100-125 Kgs (200-250 lbs) / 200-225 Kgs (450 - 500 lbs) available for high productivity GMAW process and robotic applications.

Increase in productivity

With less down time compared to standard spools

Less wear on welding machine parts

No twist pay - off system

Clean conditions

No contamination from the shop environment

Low space requirement

The drum diameter is only 510 mm

Short set up time

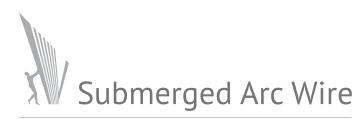
Adapt quick and easily to any conventional feeder



Grades

307, 307Si, 308, 308H, 308L, 308LSi, 309, 309L, 309LSi, 309LMo, 310, 312, 316, 316H, 316L, 316LSi, 317, 317Si, 318Si, 321, 347, 347Si, 409, 409Cb, 409Ti, 410, 410NiMo, 420, 430, 430LNb, 904L, 2209

*also offered in equivalent DIN Standard



For SAW Process

Diameter

mm	1.60	2.00	2.40	3.20	4.00
inch	0.062	0.080	0.093	0.125	0.156

Grades

307, 307Si, 308, 308H, 308LSi, 309, 309L, 309LSi, 309LMo, 310, 312, 316, 316H, 316LSi, 317, 317Si, 318Si, 321, 347, 347Si, 409, 409Cb, 409Ti, 410, 410NiMo, 420, 430, 430LNb, 904L, 2209

Packaging











For GTAW (TIG) Process

Diameter

mm	0.80	0.90	1.00	1.20	1.60	2.00	2.40	3.20	4.00	5.00	6.00
Inch	0.030	0.035	0.040	0.045	0.062	0.080	0.093	0.125	0.156	0.1875	0.250

Length Available

36 Inches & 1000 mm

Identification



Grade & size embossed on both ends of the rods for diameter 1.60 mm (0.062") & above.



Customized markings like heat number, brand name, batch number etc possible on request

Packaging in cut Length



Packed in card board tube 1 kg. to 10 kg., 2 lb to 22 lb



Fiber tubes further packed in cardboard boxes. 25 kg / 50 lb

308LSi, 309, 309L, 309LSi, 309LMo, 310, 312, 316, 316H, 316L, 316LSi, 317, 317Si, 318Si, 321, 347, 347Si, 409, 409Cb, 409Ti, 410, 410NiMo, 420, 430, 430LNb, 904L, 2209

Grades

*also offered in equivalent DIN Standard

307, 307Si, 308, 308H, 308L,



Wire on tubular carrier



In CUT LENGTHS & COILS For Manufacturing of MANUAL METAL ARE WELDING (MMAW) Electrodes

Diameter

mm	1.60	2.00	2.40	3.20	4.00	5.00	6.00
Inch	0.062 (1/16)	0.080 (5/64)	0.093 (3/32)	0.125 (1/8)	0.157 (5/32)	0.1875(3/16)	0.25 (1/4)

Grades

307, 307Si, 308, 308H, 308L, 308LSi, 309, 309L, 309LSi, 309LMo, 310, 312, 316, 316H, 316L, 316LSi, 317, 317Si, 318Si, 321, 347, 347Si, 409, 409Cb, 409Ti, 410, 410NiMo, 420, 430, 430LNb, 904L, 2209

Packaging



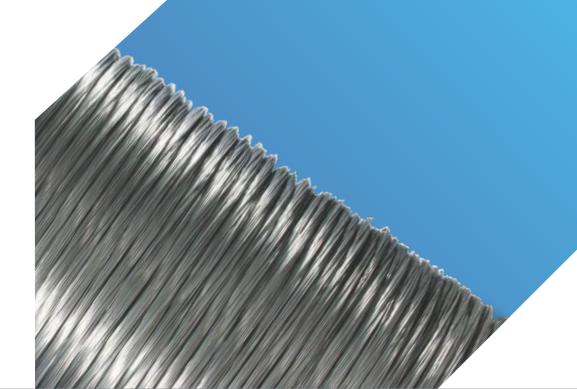
CUT LENGTHS In wooden boxes of 500 - 1000 kg 1000 - 2000 lb



COILS 300 - 1000 kg 650 - 2200 lb wound on tabular carrier



COILS 100 - 200 kg / 200 - 500 lb HDPE wrapped





Thousands of Applications

Our Wires are an important ingredient for hundreds of applications. from Automobile to Aerospace, they form an integral part in increasing the product's quality and longevity.











Railways



Engineering Fabrication



Pressure Vessels



Automotive

INNOVATIVE & **HIGH-VALUE** products



In addition to the stringent process control techniques followed during production, Venus carry out comprehensive Chemical, Mechanical & Metallurgical testing on the final products to ensure compliance to customer's product specification and expectation.

Venus also offers third party inspection according to EN 10204 3.2 on demand.



Wire Feeding Test

This test has been carried out as per Venus internal standard to ensure consistency in wire feeding during MIG welding process



Chemical Analysis

The Chemical analysis of the weld metal is carried out as per test method ASTM E 1086, requirement in AWS 5.9, sample preparation as per AWS SFA 5.4



UTS (Ultimate Tensile Strength)& % Elongation

UTS Testing as per ASTM A 370 / EN 10002-1.

Weldpad preparation as per AWS SFA 5.4.



Impact Testing Machine

Sample preparation according to AWS SFA 5.4 and Testing method ASTM A370.

Tested at room temperature and sub-zero temperature upto -196° C





Positive Material Identification (PMI)

Equipment using X-Ray fluorescence method for material identification in process & during final packing.



Metallurgical analysis

This test is for all kinds of metallurgical analysis like Inclusion rating, Grain Size, Ferrite %, Micro / Macro Analysis.

IGC (Inter Granular Corrosion) Test

This test is for detecting susceptibility to intergranular attack in Austenitic Stainless Steel as per test method ASTM A 262 / DIN 3651-2.



Apparatus for ferric sulfate – sulfuric acid test



Electrolytic Etching



	Stainless Steel for Welding Application										
	AWS				Chemical	Composition	(%)				
Grades	Classification	EN ISO 14343	С	Si	Mn	Р	S	Ni			
	ER410	13	≤ 0.12	≤ 0.50	≤ 0.60	≤ 0.03	≤ 0.02	≤ 0.50			
Martensitic	ER420		0.25/0.40	≤ 0.50	≤ 0.60	≤ 0.03	≤ 0.03	≤ 0.60			
	410NiMo	13 4	≤ 0.05	≤ 0.50	≤ 0.60	≤ 0.03	≤ 0.02	4.00/5.00			
Ferritic	ER430	17	≤ 0.10	≤ 0.50	≤ 0.60	≤ 0.03	≤ 0.03	≤ 0.50			
		430LNb (18LNb)	≤ 0.03	≤ 0.50	≤ 0.60	≤ 0.03	≤ 0.03	≤ 0.60			
Austenitic	ER308L	19 9 L	≤ 0.03	0.30/0.65	1.00/2.50	≤ 0.03	≤ 0.02	9.00/11.00			
	ER308LSi	19 9 Lsi	≤ 0.03	0.65/1.00	1.00/2.50	≤ 0.03	≤ 0.02	9.00/11.00			
	ER309L	23 12 L	≤ 0.03	0.30/0.65	1.00/2.50	≤ 0.03	≤ 0.02	12.00/14.00			
	ER309LSi	23 12 L Si	≤ 0.03	0.65/1.00	1.00/2.50	≤ 0.03	≤ 0.02	12.00/14.00			
		(309LMo) 23 12 2 L	≤ 0.03	≤ 1.00	1.00/2.50	≤ 0.03	≤ 0.02	21.00/25.00			
	ER316L	19 12 3 L	≤ 0.03	0.30/0.65	1.00/2.50	≤ 0.03	≤ 0.02	11.00/14.00			
	ER316LSi	19 12 3 L Si	≤ 0.03	0.65/1.00	1.00/2.50	≤ 0.03	≤ 0.02	11.00/14.00			
	ER310	25 20	0.08/0.15	0.30/0.65	1.00/2.50	≤ 0.03	≤ 0.03	20.00/25.50			
	ER312	29 9	≤ 0.15	0.30/0.65	1.00/2.50	≤ 0.03	≤ 0.02	8.00/10.50			
	ER317		≤ 0.08	0.30/0.65	1.00/2.50	≤ 0.03	≤ 0.03	13.00/15.00			
	ER317L	18 15 3 L	≤ 0.03	0.30/0.65	1.00/2.50	≤ 0.03	≤ 0.03	13.00/15.00			
	ER347Si	19 9 Nb Si	≤ 0.08	0.65/1.00	1.00/2.50	≤ 0.03	≤ 0.02	9.00/11.00			
	ER347	19 9 Nb	≤ 0.08	0.30/0.65	1.00/2.50	≤ 0.03	≤ 0.02	9.00/11.00			
		(307Si) 18 8 Mn	≤ 0.20	1.20	5.50/8.00	≤ 0.03	≤ 0.03	7.00/10.00			
		(318Si) 19 12 3 Nb Si	≤ 0.08	0.65/1.20	1.00/2.50	≤ 0.03	≤ 0.02	11.0/14.00			
	ER385	20 25 5 Cu L	≤ 0.025	≤ 0.50	1.00/2.50	≤ 0.02	≤ 0.02	24.00/26.00			
Duplex /	ER2209	22 9 3 NL	≤ 0.03	≤ 0.900	0.50/2.00	≤ 0.03	≤ 0.02	7.50/9.50			
Super duplex	ER2594	25 9 4 NL	≤ 0.03	≤ 1.00	≤ 2.50	≤ 0.03	≤ 0.02	8.00/10.50			
Nickel Alloys	ERNiCrMo-3		≤ 1.0	≤ 0.50	≤ 0.50	≤ 0.02	≤ 0.015	≥ 58.00			
	ERNiCr-3		≤ 0.10	≤ 0.50	2.50/3.50	≤ 0.03	≤ 0.015	≥ 67.00			
	VENUS		С	Si	Mn	Р	S	Ni			
	For Electrodes	308L	≤ 0.02	≤ 0.20	≤ 2.00	≤ 0.02	≤ 0.015	9.50/10.50			
Special Alloy	For Automotive Exhaust	430LNbW	≤ 0.03	0.30/0.60	0.30/0.60	≤ 0.03	≤ 0.03	0.20/0.60			

We are COMMITTED to THINKING AHEAD & STAYING AHEAD in ways that matter most to OUR CLIENTS.



Stainless Steel for Welding Application											
		Chei	mical Composi	tion (%)			Approval				
	Cr	Мо	Cu	N	Others	TUV	DB	CWB			
	12.00/15.00	≤ 0.50	≤ 0.50								
	12.00/14.00	≤ 0.75	≤ 0.75								
	11.00/12.50	0.40/0.70	≤ 0.50								
	15.50/17.00	≤ 0.5	≤ 0.50								
	15.50/17.00	≤ 0.75	≤ 0.75		Nb 8xC/1.20						
	19.50/22.00	≤ 0.50	≤ 0.50					Mig & Tig			
	19.50/22.00	≤ 0.50	≤ 0.50			Mig & Tig	Mig & Tig	Mig			
	23.00/25.00	≤ 0.50	≤ 0.50					Mig & Tig			
	23.00/25.00	≤ 0.50	≤ 0.50			Mig & Tig		Mig			
	11.00/15.50	2.00/3.50	≤ 0.50								
	18.00/20.00	2.00/3.00	≤ 0.50					Mig & Tig			
	18.00/20.00	2.00/3.00	≤ 0.50			Mig & Tig	Mig & Tig	Mig			
	25.00/28.00	≤ 0.75	≤ 0.75								
	28.00/32.00	≤ 0.50	≤ 0.50								
	18.50/20.50	3.00/4.00	≤ 0.75								
	18.50/20.50	3.00/4.00	≤ 0.75								
	19.00/21.00	≤ 0.50	≤ 0.50		Nb 10XC/1.00	Mig					
	19.00/21.00	≤ 0.50	≤ 0.50		Nb 10XC/1.00	Tig					
	17.00/20.00	≤ 0.50	≤ 0.50		_	Mig & Tig	Mig				
	18.00/20.00	2.50/3.00	≤ 0.50		Nb 10XC/1.00	Mig & Tig	Mig & Tig				
	19.50/21.50	4.20/5.20	1.20/2.00								
	21.50/23.50	2.50/3.50	≤ 0.50	0.10/0.20		Mig & Tig					
	24.00/27.00	2.50/4.50	≤ 1.50	0.20/0.30	W ≤ 1.00						
	20.00/23.00	8.00/10.00	≤ 0.50		Fe 5.0max, Al 0.40max, Ti 0.40max, Nb+Ta 3.15/4.15, Others 0.50max						
	18.00/22.00		≤ 0.50		Fe 3.0max, Ti 0.75max, Nb+Ta 2.0/3.0, Others 0.50max						
	Cr	Мо	Cu	N	Others						
	19.50/20.50	≤ 0.20	≤ 0.20	≤ 0.08							
	16.50/19.50	0.20/0.50	0.30/0.70		Nb 0.30/0.70						





Exports Worldwide





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