WIRE& ROPE

Stainless Steel Catalogue

CIVMATS Materials for Civilization







WHO WE ARE

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▼

WHY CHOOSE US





OUR STORY

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and exporter of stainless steel materials in China. Our stainless steel materials range from pipe products, flat products (sheet, plate, coils and strips), bar products to wire products. Backed up with extensive industrial experience and knowledge, we have confidence that we can bring greatest value to you, our customers from home and abroad.

Mission At CIVMATS, our mission is

to offer the best steel solutions and products in such a cost-effective way that each transaction concluded will take us closer to world civilization. As a steel company, we believe materials play a significant role in acceleration of human civilization. Each time new materials are developed, great inventions and disruptions take place. Cities emerge on the land, ships sail on the sea, and planes fly on the sky. None of these constructions can be completed without steel materials, be it carbon steel, stainless steel or super alloys. With this belief, we name our company CIVMATS, which means materials for civilization.

Vision Our vision defines our strategy to carry out our mission. We call it a hybrid strategy because it entails two parts : 1) product development and 2)market development.

WHO WE ARE

While our company thrives on its initial stainless steel business, we have a considerable amount of old customers demand super alloys like Monel, Inconel, Incoloy, Hastelloy. That's how we increase our production line and pursue product development strategy. We also adopt market development strategy. With the development of new media and new technology, we will make our products and solutions more accessible to new markets.

Values The today's business

and the tomorrow's

business will need our people to think, act and accomplish. Our values are integral to our corporate culture. It is set to help us weigh our business decisions, pursue excellent performance and create value. CIVMATS people are expected to embody "CIVMATS" spirits:

- Challenger: Be a challenger and be a leader
- Integrity: Be honest and be real
- · Visionary: Be far-sighted and forward-looking
- Maker: Make it happen
- · Accountability: Adopt an "it is up to me" attitude
- Teamwork: Work collaboratively
- · Smartness: Work hard and work smart

CIVMATS CO., LIMITED is a leading manufacturer





NHY DOSE US

WHY CHOOSE US

Choiceable Material

With choiceable material from the very start comes our high quality stainless steel products.









CIVMATS have stainless steel inventories for common grades and common sizes to ensure fast response to our customers' demand.









WHY CHOOSE US

Huge Stock



Process Optimization

We are attentive to every process of steel making: rolling, drawing, annealing, straightening, pickling, etc. to warrantee the quality.



Elegant Appearance

CIVMATS will do surface treatment as per your requirement. Our stainless steel products possesses elegant appearances after pickling, sand blasting or polishing.



















Strict Quality Control

We will carry out strict quality control for every production from the very start till the end, to ensure the goods to be received will be a great satisfaction to you.









At CIVMATS, we choose different packings for diferrent stainless steel products, benchmarked against the highest industrial standard to ensure the goods will be intact when reaching at your hand.









WHY CHOOSE US

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Sturdy Packaging



CIVMATS & Its Founder

CIVMATS was established in 1989 by its first CEO Dahe He. His initial acquaintance with steel industry was in 1975 when he worked as a technician apprentice in a local steel mill. The mill produced stainless steel bars and wires. Though started from a humble background, Dahe aspired to be the best among his peers. His industriousness, fast-learning abilities and communication skills paid off. Four years later in 1979, he was promoted as the head of the mill, in charge of some 90 workers. He worked there for two more years.

In 1982 introduced by a big account, he left the mill and worked for a state-owned enterprise to chair a new workshop producing stainless steel pipes. There he worked for over six years, during which period, he worked half of his time as a workshop manager and half of his time as a sales manager.

In 1989 when he was on his business trip, he coincidently visited a stainless steel bar mill which was almost at bankruptcy. He decided to buy it with all his savings, bank loans and government funds. That's how CIVMATS came into being.

Stainless Steel Production Line

During his tenure, Civmats stainless steel business was developed rapidly yet stably in domestic market, and the market penetration was deep. Dahe wouldn't stop at one mill that only produces stainless steel bars. Through partnership and acquisition, in 2012 Civmats

From China to International

have established the complete stainless steel product lines including pipes and fittings, sheets and plates, coils and strips, as well as wires. Due to heavy business activities, Dahe established supply chain management to reduce the cost and enhance customer experience. From stainless steel mills to the customers' warehouse, CIVMATS manages the whole process and eliminates all the risks customers have to shoulder. CIVMATS boasts its broad and one-stop stainless steel purchasing experience.

New CEO

Dahe resigned in 1999 and CIVMATS was succeeded by Laisheng He as its CEO. Under Laisheng's leadership (from 2000 till now). CIVMATS boasts 8 mills national-wide. While domestic business grows mature, CIVMATS turns its attention to international market.

International Sales Department

In 2016, our international business office in Changzhou was established, designed to cater for a global development. We believe with valuable materials and service, we will win your recognition and trust, which can pave way for a long-term cooperation.

The stainless steel and super alloy materials you buy from CIVMATS are all produced under ISO 9001 system. Each steel product delivered from our factory is a brand warranty. Should you find any unqualified product from here, you are entitled to unconditional compensation.



Main Grades of Stainless Steel Wire & Rope

304		AISI304, SUS304, S30400, 1.4301
≤0.08% ≤2.00% ≤0.030%	18.0%~20.0%	Remainder
C <mark>Si</mark> Mn PS Ni	Cr	N Fe
≤0.75% ≤0.045% 8.0%~10.5%		≤0.10%
304L	AISI304L, SUS	304L, S30403, 1.4306, 1.4307
≤0.03% ≤2.00% ≤0.030%	18.0%~20.0%	Remainder
C <mark>Si</mark> MnP <mark>S</mark> Ni	Cr	N Fe
≤0.75% ≤0.045% 8.0%~12.0%		≤0.10%
316		AISI316, SUS316, S31600, 1.4401
≤0.08% ≤2.00% ≤0.030%	16.0%~18.0%	≤0.10%
C <mark>Si</mark> MnP <mark>S</mark> Ni	Cr	Mo <mark>N</mark> Fe
≤0.75% ≤0.045% 10.0%~14.0%		2.0%~3.0% Remainder
316L	A	ISI316L, SUS316L, S31603, 1.4404
≤0.03% ≤2.00% ≤0.030%	16.0%~18.0%	≤0.10%
C <mark>SI</mark> MnPSNi	Cr	Mo <mark>N</mark> Fe
≤0.75% ≤0.045% 10.0%~14.0%		2.0%~3.0% Remainder
321		AISI321, SUS321, S32100, 1.4541
≤0.08% ≤2.00% ≤0.030%	17.0%~19.0%	≤0.10% Remainder
C <mark>Si</mark> MnP <mark>S</mark> Ni	Cr	Ti N Fe
≤0.75% ≤0.045% 9.0%~12.0%		
316Ti	AI	SI316Ti, SUS316Ti, S31635, 1.4571
≤0.08% ≤2.00% ≤0.030%	16.0%~18.0%	
C <mark>Si</mark> MnP <mark>S</mark> Ni	Cr	Mo Ti N Fe
≤0.75% ≤0.045% 10.0%~14.0%		2.0%~3.0% ≤0.10% Remainder
317L	A	ISI317L, SUS317L, S31726, 1.4438
≤0.03% ≤2.00% ≤0.030%	18.0%~20.0%	≤0.10%
C <mark>Si</mark> Mn P <mark>S Ni</mark>	Cr	Mo <mark>N</mark> Fe
≤0.75% ≤0.045% 11.0%~15.0%		3.0%~4.0% Remainder
310S	A	ISI310S, SUS310S, S31008, 1.4845
≤0.08% ≤2.00% ≤0.030%		24.0%~26.0%
C Si Mn PS Ni		Cr Fe
≤1.50% ≤0.045% 19.0%~22.0%		Remainder
347		AISI347, SUS347, S34700, 1.4550
≤0.08% ≤2.00% ≤0.030%	17.0%~19.0%	Remainder
C <mark>Si</mark> MnP <mark>S</mark> Ni	Cr	Nb Fe
≤0.75% ≤0.045% 9.0%~13.0%		10xC%~1.00%



Ni

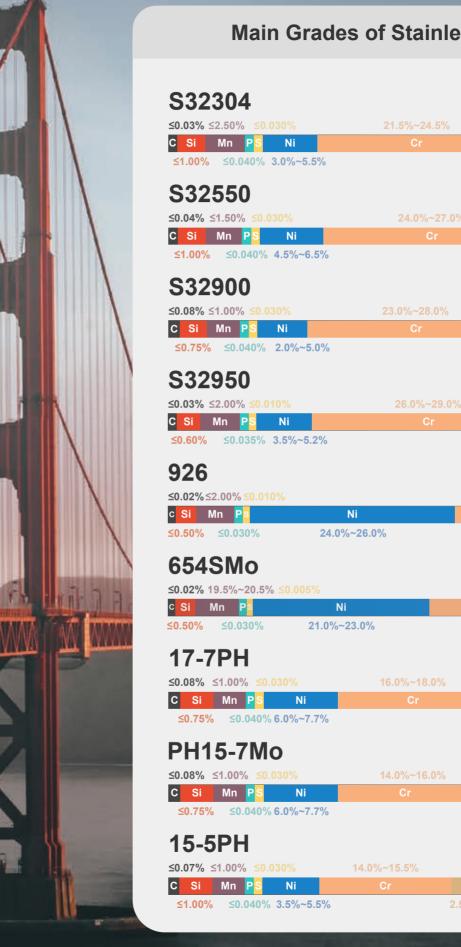
Main Grades of Stainless Steel Wire & Rope

F51, SUS329J3L, 1.4462
0.08%~0.20%
Mo <mark>N</mark> Fe
2.5%~3.5% Remainder
2205, SUS329J3L, F51, 1.4462
0.14%~0.20%
Mo N Fe
3.0%~3.5% Remainder
2507, NAS74N, F53, 1.4410
% ≥0.50% Remainder
Mo Cu N Fe
3.0%~5.0% 0.24%~0.32%
AISI904L, SUS904L, N08904, 1.4539
19.0%~23.0% 1.0%~2.0%
Cr Mo Cu N
4.0%~5.0% ≤0.10%
AISI254SMo, SUS254SMo, S31254, 1.4547
19.5%~20.5% 0.5%~1.0% Remaind
Cr Mo Cu N
6.0%~6.5% ≤0.10%
AISI630, SUS630, S17400, 1.4542
Nb+Ta: 0.15%~0.45%
Cu <mark>Nb</mark> Ta Fe
3.0%~5.0% Remainder
AISI253MA, SUS253MA, S30815, 1.4835
22.0% Remainder
ce Fe
0.03%~0.08%
AISI301, SUS301, S30100, 1.4319
Remainder
N Fe
≤0.10%
AISI302, SUS302, S30200, 1.4325
Remainder
N Fe
≤0.10%

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Main Grades of Stainless Steel Wire & Rope

304N		AISI304N, SUS304N1, S30451, 1.4315
≤0.08% ≤2.00% ≤0.030%	18.0%~20.0%	Remainder
C <mark>SI</mark> MnPSNi	Cr	N Fe
≤0.75% ≤0.045% 8.0%~10.5%		0.10%~0.60%
304H		AISI304H, SUS304, S30409, 1.4948
0.04%~0.10% ≤2.00% ≤0.030%	18.0%~20.0%	
C <mark>Si</mark> MnP <mark>SNi</mark>	Cr	Fe
≤0.75% ≤0.045% 8.0%~10.5%		Remainder
309S		AISI309S, SUS309S, S30908, 1.4833
≤0.08% ≤2.00% ≤0.030%	22.0 %	~24.0%
C Si Mn PS Ni	(Cr Fe
<mark>≤0.75%</mark> ≤0.045% 12.0%~15.0%		Remainder
310H		AISI310H, SUS310H, S31009
0.04%~0.10% ≤2.00% ≤0.030%		24.0%~26.0%
C Si Mn PS Ni		Cr Fe
≤0.75% ≤0.045% 19.0%~22.0%		Remainder
316LN	AISI316LN, SU	JS316LN1, S31653, 1.4406, 1.4429
≤0.03% ≤2.00% ≤0.030%	16.0%~18.0%	0.10%~0.60%
C <mark>Si</mark> Mn <mark>PS Ni</mark>	Cr	Mo <mark>N</mark> Fe
≤0.75% ≤0.045% 10.0%~14.0%		2.0%~3.0% Remainder
316H		AISI316H, SUS316H, S31609
0.04%~0.10% ≤2.00% ≤0.030%	16.0%~18.0%	Remainder
C <mark>Si</mark> Mn P <mark>S</mark> Ni	Cr	Mo Fe
≤0.75% ≤0.045% 10.0%~14.0%		2.0%~3.0%
321H		AISI321H, SUS321H, S32109, 1.4878
0.04%~0.10% ≤2.00% ≤0.030%	17.0%~19.0%	Remainder
C <mark>Si</mark> Mn P <mark>S</mark> Ni	Cr	Ti Fe
≤0.75% ≤0.045% 9.0%~12.0%		
347H		AISI347H, SUS347H, S34709, 1.4912
0.04%~0.10% ≤2.00% ≤0.030%	17.0%~19.0%	Remainder
C Si Mn PS Ni	Cr	Nb Fe
≤0.75% ≤0.045% 9.0%~13.0%		8xC%~1.00%
S32760		F55, 1.4501
≤0.03% ≤1.00% ≤0.010%	24.0%~26.0%	0.50%~1.00% 0.20%~0.30%
C <mark>Si Mn PS Ni</mark>	Cr	Mo Cu W N Fe
≤1.00% ≤0.030% 6.0%~8.0%		3.0%~4.0% 0.50%~1.00% Remainder



Ni

ess S	Steel	Wire	& F	So	ре			
	23	304, DP	11, 1.4	436	2			
		.60% R	emaind	ler				
		N Fe						
		0.05%~0.	.20%					
2	55, SUS	329J4L	, QSA	250	5, 1.4	4507		
		1.5	0%~2.5	0%	Rem	ainde	r	
		Мо						
	2.9		0.10%	~0. 2	25%			
	329	, SUS3	29J1,	1.44	460			
		Rem	nainder					
	Мо	Fe						
	1.0%~2							
	7	-Mo PL	.US, 2	950)			
		0.15%~(0.35%					
		Mo N	Fe					
	1.0	%~2.5%	Ren	nain	der			
A	AISI926,	SUS92	6, N08	926	6, 1.4	529		
	19.0%~2 °	1.0%				0.5%~	1.5%	
	Cr			ſ	No	Cu	I N	
					~7.0%	6 0.15	5%~0.	25%
AISI6	54SMo,	SUS65	4SMo	, S3	2654	, 1.4	652	
2	4.0%~25.0				(0.3%~	0.6%	
	Cr					С		
						% 0.4	5%~0	.55%
A	AISI631,	SUS63	1, S17	700), 1.4	568		

Remainder 0.75%~1.0% AISI632, S15700 0.75%~1.0% Fe Remainder S15500, XM-12 Nb+Ta: 0.15%~0.45% Nb Ta Fe 2.5%~4.5% Remainder



Main Grades of Stainless Steel Wire & Rope

110

AISIA10 SUISA10 SA1000 1 A006

$\begin{array}{c c c c c c c c c c c c c c c c c c c $		
\$1.00% \$0.040% \$0.75% Remainder 410S AISI410S, SUS410S, S41008, 1.4000 \$0.08% \$1.00% \$0.00% \$1.5%-13.5% C S Mn P3 Mi Cr Fo \$1.00% \$0.040% \$0.64% Remainder AISI416, SUS416, S41600, 1.4005 \$0.15% \$1.25% 20.15% Remainder AISI420, SUS420J1, SUS420J2, 1.4021, 1.4028, S42000 \$0.15% \$1.00% \$0.080% 12.0%-14.0% Remainder AISI420, SUS420J1, SUS420J2, 1.4021, 1.4028, S42000 20.15% \$1.00% \$0.080% 12.0%-14.0% Remainder S1.00% \$0.080% \$0.20% 20.15% \$1.00% \$0.080% 12.0%-14.0% Remainder S1.00% \$0.000% \$0.20% 420F AISI420F, SUS420F, SUS420F, S42020, 1.4029 30%-0.40% \$0.80% \$0.80% 30%-0.40% \$1.00% \$0.080% \$0.80% \$0.80% \$0.80% 431 AISI431, SUS431, S43100, 1.4057 \$0.20% \$0.80% \$0.80% \$0.00% \$0.00% \$0.50% \$0.75% \$0.75% \$0.75% <tr< td=""><td>)8%~0.15% ≤1.00% ≤0.030% 11.5%~13.5%</td><td></td></tr<>)8%~0.15% ≤1.00% ≤0.030% 11.5%~13.5%	
410S AISI410S, SUS410S, S41008, 1.4000 \$0.08% \$1.00% \$0.030% 11.5%-13.5% Fo \$1.00% \$0.040% \$0.040% \$0.05% Remainder 416 AISI416, SUS416, S41600, 1.4005 \$0.15% \$1.25% \$0.15% Remainder 410 AISI420, SUS420J1, SUS420J2, 1.4021, 1.4028, S42000 \$0.15% \$1.00% \$0.030% 12.0%-14.0% 420 AISI420, SUS420J1, SUS420J2, 1.4021, 1.4028, S42000 20.15% \$1.00% \$0.030% Remainder \$1.00% \$0.040% 12.0%-14.0% AISI420F, SUS420F, S42020, 1.4029 20.15% \$1.00% \$0.030% Cr \$2.00F AISI420, SUS420F, S42020, 1.4029 20% \$0.040% 12.0%-13.0% Remainder \$2.00% \$0.030% 50.60% 431 AISI431, SUS431, S43100, 1.4057 \$2.00% \$0.040% 12.5%-12.6% Remainder 440A AISI440A, SUS440A, S44002 \$2.00% \$0.040% 12.5%-2.56% Remainder 440A AISI440B, SUS440A, S44002 \$2.00% \$0.030% \$0.75% \$2.00% \$0.030% \$0.75% \$2.00% \$0.030% \$0.75% \$3.00% \$0.030% \$0.75% \$3.00% \$0.030% \$0.75% \$3.00% \$0.030%	C Si Mn PS Ni Cr	Fe
50.08% \$1.00% \$0.030% 11.5%-13.5% C SI Mn P NI Cr Fe \$1.00% \$0.04% \$0.6% Remainder 416 AISI416, SUS416, S41600, 1.4005 \$0.15% \$1.25% \$0.05% Remainder 2 SI Mn P Cr Fe \$1.00% \$0.060% 12.0%-14.0% AISI420, SUS420J1, SUS420J2, 1.4021, 1.4028, S42000 20.15% \$1.00% \$0.080% Remainder Fe \$1.00% \$0.080% 12.0%-14.0% AISI420F, SUS420F, SUS420F, S42020, 1.4029 30%-0.40% \$1.00% \$0.20%-0.34% 12.5%-14.0% Remainder \$1.00% \$0.00% 12.0%-14.0% Remainder \$1.00% \$0.00% \$0.20%-0.34% 12.5%-14.0% Remainder \$1.00% \$0.00% \$0.20%-0.34% 12.5%-14.0% Remainder \$1.00% \$0.00% \$0.20%-0.34% 12.5%-14.0% Remainder \$1.00% \$0.000% \$0.50% \$0.60% \$1.00% \$0.000% \$0.50% \$0.60% \$2.00% \$1.00% \$0.000% \$0.50% \$0.20%	≤1.00% ≤0.040% ≤0.75%	Remainder
50.08% \$1.00% \$0.030% 11.5%-13.5% C SI Mn P NI Cr Fe \$1.00% \$0.04% \$0.6% Remainder 416 AISI416, SUS416, S41600, 1.4005 \$0.15% \$1.25% \$0.05% Remainder 2 SI Mn P Cr Fe \$1.00% \$0.060% 12.0%-14.0% AISI420, SUS420J1, SUS420J2, 1.4021, 1.4028, S42000 20.15% \$1.00% \$0.080% Remainder Fe \$1.00% \$0.080% 12.0%-14.0% AISI420F, SUS420F, SUS420F, S42020, 1.4029 30%-0.40% \$1.00% \$0.20%-0.34% 12.5%-14.0% Remainder \$1.00% \$0.00% 12.0%-14.0% Remainder \$1.00% \$0.00% \$0.20%-0.34% 12.5%-14.0% Remainder \$1.00% \$0.00% \$0.20%-0.34% 12.5%-14.0% Remainder \$1.00% \$0.00% \$0.20%-0.34% 12.5%-14.0% Remainder \$1.00% \$0.000% \$0.50% \$0.60% \$1.00% \$0.000% \$0.50% \$0.60% \$2.00% \$1.00% \$0.000% \$0.50% \$0.20%	410S	AISI410S, SUS410S, S41008, 1.4000
\$1.00% \$0.00% \$0.6% Remainder 416 AISI416, SUS416, S41600, 1.4005 \$0.15% \$1.25% \$0.15% Remainder \$1.00% \$0.060% \$12.0%+14.0% AISI420, SUS420J1, SUS420J2, 1.4021, 1.4028, S42000 \$20.15% \$1.00% \$0.030% Remainder \$1.00% \$0.040% \$12.0%+14.0% Remainder \$1.00% \$0.040% \$12.0%+14.0% AISI420F, SUS420J2, 1.4021, 1.4028, S42020 \$20.15% \$1.00% \$0.040% \$12.0%+14.0% Remainder \$1.00% \$0.040% \$12.0%+14.0% Remainder \$1.00% \$0.060% \$0.20%+0.34% \$12.5%+14.0% Remainder \$1.00% \$0.060% \$0.20%+0.34% \$12.5%+14.0% Remainder \$1.00% \$0.060% \$0.50% \$0.60% \$1.00% \$0.060% \$0.50% \$0.60% \$1.00% \$0.060% \$0.50% \$0.60% \$2.00% \$1.00% \$0.030% \$0.50% \$1.00% \$0.030% \$0.50% \$1.00% \$0.030% \$0.75% \$1.00% \$0.030% \$0.75% \$1.00% \$0.030% \$0.75% \$1.00% \$0.030% \$0.75% \$1.00% \$0.030% \$0.75% \$1.00% \$0.030% \$0.75% \$1.00% \$0.030% \$0.75% \$1.00% \$0.030% \$0.75% \$1.00% \$0.030%		
416 AISI416, SUS416, S41600, 1.4005 \$0.15% \$1.25% \$0.15% Remainder \$1.00% \$0.060% 12.0%-14.0% AISI420, SUS420J1, SUS420J2, 1.4021, 1.4028, S42000 \$2.15% \$1.00% \$0.030% Remainder \$1.00% \$0.030% Remainder \$1.00% \$0.040% 12.0%-14.0% AISI420F, SUS420J7, SUS420F, S42020, 1.4029 30%-0.40% \$1.50% 0.20%-0.34% 12.5%-14.0% Remainder \$1.00% \$0.060% \$0.50% \$0.60% 420 F AISI420F, SUS420F, S42020, 1.4029 30%-0.40% \$1.50% 0.20%-0.34% 12.5%-14.0% Remainder \$1.00% \$0.060% \$0.50% \$0.60% 431 AISI430F, SUS431, S43100, 1.4057 \$2.0% \$1.00% \$0.030% 15.0%-17.0% \$1.00% \$0.030% 15.0%-17.0% \$1.00% \$0.040% 1.5%-17.0% \$1.00% \$0.040% 15.0%-17.0% \$2.00% \$1.00% \$0.030% \$0.75% \$1.00% \$0.040% 1.5%-17.0% \$1.00% \$0.040% 1.5%-18.0% \$1.00% \$0.040% 1.5%-17.0% \$1.00% \$0.030% \$0.75% \$1.00% \$0.040% 16.0%-18.0% \$2.075% \$1.00% \$0.030% \$0.75% \$1.00% \$0.040% 16.0%-18.0% Remain	C <mark>Si</mark> Mn <mark>PS Ni</mark> Cr	Fe
SU15% S1.25% 20.15% Remainder C S1 Mn S Cr Fe S1.00% S0.060% 12.0%-14.0% AISI420, SUS420J1, SUS420J2, 1.4021, 1.4028, S42000 20.15% S1.00% S0.030% Remainder C S Mn PS Cr Fe S1.00% S0.040% 12.0%-14.0% AISI420F, SUS420F, SUS420F, S42020, 1.4029 30%-0.40% S1.00% S0.040% 12.0%-14.0% Remainder C Si Mn PS N Cr Cu Fe S1.00% S0.060% S0.50% S0.60% AISI431, SUS431, S43100, 1.4057 S0.20% S1.00% S0.030% 15.0%-17.0% Remainder 4400A AISI430, SUS440A, SUS440A, S44002 S0.20% S0.75% C SI Mn PS Cr Mo Fe S1.00% S0.030% S0.75% S0.75% S0.75% C SI Mn PS Cr Mo Fe S1.00% S0.030% S0.75% S0.75% S1.	≤1.00% ≤0.040% ≤0.6%	Remainder
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C Si Mn P S Cr Mo Fe ≤1.00% ≤0.040% 16.0%~18.0% Remainder 440C AlSi440C, SUS440C, S44004, 1.4125 0.95%~1.20% ≤1.00% ≤0.030% ≤0.75% C Si Mn P S Cr Mo Fe	<pre>≤1.00% ≤0.060% ≤0.50% 431 ≤0.20% ≤1.00% ≤0.030% 15.0%~4 C Si Mn PS Ni Cr ≤1.00% ≤0.040% 1.25%~2.50% 440A .60%~0.75% ≤1.00% ≤0.030% C Si Mn PS Cr</pre>	Cu Fe ≤0.60% AISI431, SUS431, S43100, 1.4057 17.0% Fe Remainder AISI440A, SUS440A, S44002 ≤0.75% Mo Mo Fe
≤1.00% ≤0.040% 16.0%~18.0% Remainder 440C AISI440C, SUS440C, S44004, 1.4125 0.95%~1.20% ≤1.00% ≤0.030% ≤0.75% C Si Mn P.S Cr Mo Fe	<pre>\$1.00% \$0.060% \$0.50% 431 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$</pre>	Cu Fe ≤0.60% AISI431, SUS431, S43100, 1.4057 17.0% Fe Remainder AISI440A, SUS440A, S44002 ≤0.75% Mo Kemainder Kemainder
440C AISI440C, SUS440C, S44004, 1.4125 0.95%~1.20% ≤1.00% ≤0.030% ≤0.75% C Si Mn P S Cr Mo Fe	<pre>\$1.00% \$0.060% \$0.50% 431 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$</pre>	Cu Fe ≤0.60% AISI431, SUS431, S43100, 1.4057 17.0% Fe Remainder AISI440A, SUS440A, S44002 ≤0.75% Mo Fe % Remainder 6 Remainder AISI440B, SUS440B, S44003, 1.4112
0.95%~1.20% ≤1.00% ≤0.030% ≤0.75% C Si Mn PS Cr Mo Fe	<pre>≤1.00% ≤0.060% ≤0.50% 431 ≤0.20% ≤1.00% ≤0.030% 15.0%~1 C Si Mn PS Ni Cr ≤1.00% ≤0.040% 1.25%~2.50% 4400A .60%~0.75% ≤1.00% ≤0.030% C Si Mn PS Cr ≤1.00% ≤0.040% 16.0%~18.0% 440B .75%~0.95% ≤1.00% ≤0.030%</pre>	Cu Fe ≤0.60% AISI431, SUS431, S43100, 1.4057 17.0% Fe Remainder AISI440A, SUS440A, S44002 ≤0.75% Mo Kemainder AISI440B, SUS440B, S44003, 1.4112 ≤0.75% ≤0.75%
0.95%~1.20% ≤1.00% ≤0.030% ≤0.75% C Si Mn PS Cr Mo Fe	<pre>\$1.00% \$0.060% \$0.50% 431 \$<0.20% \$1.00% \$0.030% 15.0%~4 C Si Mn PS Ni Cr \$1.00% \$0.040% 1.25%~2.50% 4400A .60%~0.75% \$1.00% \$0.030% C Si Mn PS Cr \$1.00% \$0.040% 16.0%~18.0% 4400B .75%~0.95% \$1.00% \$0.030% C Si Mn PS Cr \$1.00% \$0.030%</pre>	Cu Fe ≤0.60% AISI431, SUS431, S43100, 1.4057 17.0% Fe Remainder AISI440A, SUS440A, S44002 ≤0.75% Mo Mo Fe 6 Remainder 6 Remainder 6 Fe Mo Fe Mo Fe Mo Fe Mo Fe Mo Fe Mo Fe
C Si Mn PS Cr Mo Fe	$ \begin{cases} 1.00\% \leq 0.060\% \leq 0.50\% \\ 431 \\ \leq 0.20\% \leq 1.00\% \leq 0.030\% & 15.0\%^{-4} \\ \hline C & Si & Mn & PS & Ni & Cr \\ \leq 1.00\% & \leq 0.040\% & 1.25\%^{-2.50\%} \\ \hline 440A \\ .60\%^{-0.75\%} \leq 1.00\% & \leq 0.030\% \\ \hline C & Si & Mn & PS & Cr \\ \leq 1.00\% & \leq 0.040\% & 16.0\%^{-18.0\%} \\ \hline 440B \\ .75\%^{-0.95\%} & \leq 1.00\% & \leq 0.030\% \\ \hline C & Si & Mn & PS & Cr \\ \leq 1.00\% & \leq 0.040\% & 16.0\%^{-18.0\%} \\ \hline \\ \end{cases} $	Cu Fe ≤0.60% AISI431, SUS431, S43100, 1.4057 17.0% Fe Remainder AISI440A, SUS440A, S44002 ≤0.75% Mo Mo Fe % Remainder
	$ \begin{cases} 1.00\% \leq 0.060\% \leq 0.50\% \\ 431 \\ \leq 0.20\% \leq 1.00\% \leq 0.030\% & 15.0\%^{-4} \\ \hline C & Si & Mn & PS & Ni & Cr \\ \leq 1.00\% & \leq 0.040\% & 1.25\%^{-2.50\%} \\ \hline 440A \\ .60\%^{-0.75\%} \leq 1.00\% & \leq 0.030\% \\ \hline C & Si & Mn & PS & Cr \\ \leq 1.00\% & \leq 0.040\% & 16.0\%^{-18.0\%} \\ \hline 440B \\ .75\%^{-0.95\%} & \leq 1.00\% & \leq 0.030\% \\ \hline C & Si & Mn & PS & Cr \\ \leq 1.00\% & \leq 0.040\% & 16.0\%^{-18.0\%} \\ \hline 440C \\ \hline 440C \\ \hline \end{cases} $	Cu Fe ≤0.60% AISI431, SUS431, S43100, 1.4057 17.0% Fe Remainder AISI440A, SUS440A, S44002 ≤0.75% Mo Mo Fe % Remainder ≤0.75% Mo Mo Fe % Remainder AISI440B, SUS440B, S44003, 1.4112 ≤0.75% AISI440B, SUS440B, S44003, 1.4112
	$ \begin{cases} 1.00\% \leq 0.060\% \leq 0.50\% \\ 431 \\ \leq 0.20\% \leq 1.00\% \leq 0.030\% & 15.0\%^{-4} \\ \hline C & Si & Mn & P & Ni & Cr \\ \leq 1.00\% & \leq 0.040\% & 1.25\%^{-2.50\%} \\ \hline 440A \\ .60\%^{-0.75\%} \leq 1.00\% & \leq 0.030\% \\ \hline C & Si & Mn & P & Cr \\ \leq 1.00\% & \leq 0.040\% & 16.0\%^{-18.0\%} \\ \hline 440B \\ .75\%^{-0.95\%} & \leq 1.00\% & \leq 0.030\% \\ \hline C & Si & Mn & P & Cr \\ \leq 1.00\% & \leq 0.040\% & 16.0\%^{-18.0\%} \\ \hline 440C \\ .95\%^{-1.20\%} & \leq 1.00\% & \leq 0.030\% \\ \end{cases} $	Cu Fe ≤0.60% AISI431, SUS431, S43100, 1.4057 17.0% Fe Remainder AISI440A, SUS440A, S44002 ≤0.75% Mo Mo Fe % Remainder ≤0.75% Mo Mo Fe % Remainder ▲ISI440B, SUS440B, S44003, 1.4112 ≤0.75% Mo Fe Remainder ▲ISI440C, SUS440C, S44004, 1.4125 ≤0.75% AISI440C, SUS440C, S44004, 1.4125

409(L) ≤0.03% ≤1.00% ≤0.50% Remainder C Si Mn PS Ni NbN Fe ≤1.00% ≤0.040% ≤0.50% 6x(C%+N%)~0.50% ≤0.10% 430 **≤0.12% ≤1.00% ≤0.030%** C Si Mn PS Ni Fe **≤1.00% ≤0.040% ≤0.75%** 434 ≤0.12% ≤1.00% ≤0.030% C Si Mn P Mo Fe **≤1.00%** ≤0.040% 436 **≤0.12% ≤1.00% ≤0.030%** C Si Mn P **≤1.00% ≤0.040%** 5*C%~0.8% 439 **≤0.03%** ≤1.00% **≤0.030%** C Si N Fe Mn P Ni **≤1.00% ≤0.040% ≤0.50%** ≤0.030% 444 ≤0.25% ≤1.00% ≤0.030% C Si Mn P Ni **≤1.00% ≤0.040% ≤1.00%**

Main Grades of Stainless Steel Wire & Rope

AISI409, AISI409L, SUH409, SUH409L, S40900, 1.4512

AISI430, SUS430, S43000, 1.4016

Remainder

AISI434, SUS434, S43400, 1.4113

Remainder

AISI436, SUS436, S43600, 1.4536, SAE 51436, SAE J405

Remainder

Nb Fe

AISI439, SUS430LX, S43035, 1.4510

Remainder

AISI444, SUS444, S44400, 1.4521

Ti+Nb: [0.20+4x(C%+N%)]~0.80% Remainder

Nb N Fe

1.75%~2.50% ≤0.030%





















Specifications

• Dimensions:

Diameter: 0.02mm-25mm

*Customized size needs to be confirmed with us • Classification: Cold heading wire (CHQ wire), spring wire, welding wire, hydrogen wire, bright wire, half-soft wire, soft wire, cold-forging wire, electrolytic wire as well as special-shaped wires.

Features

Good tensile and mechanical properties, anticorrosion, heat resistance, high melting point.

Applications

Spring wire, cable wire, stainless steel soft tube, chemical industry, petroleum, energy, aerospace, heat exchanger, papermaking plant, parts, electron tube, electronic instruments, mesh, medical application, cookware, etc.

Standards

ASTM A580, ASTM A478, ASTM A492, ASTM A493, ASTM A484, ASTM A555/A555M, ASTM A313/A313M, JIS G4308, GB/T 4356

Introduction

As a leading stainless steel wire manufacturer in China, CIVMATS produce high quality stainless steel wires with an annual output of 35000~36000 tons (up to 3000 Tons/ Month). Our stainless steel wires have been exported to international market since 2016. The specifications to which we conform are mainly ASTM, JIS, GB, DIN in the sequence of popularity. CIVMATS is attentive to quality control from the very first step of choice of raw material billets, till the last step of packing method. Every detail is confirmed before order without exaggeration, without hidden cost. We are 100% transparent with our clients on quality and cost, which we believe concern all of the buvers.

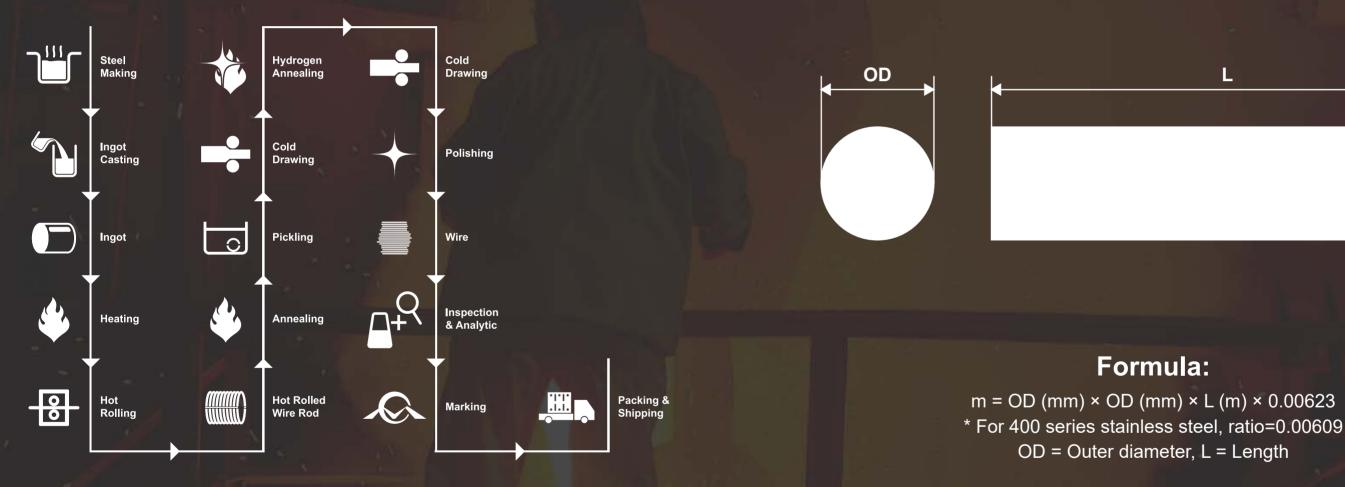
At CIVMATS, stainless steel wire production scope is mainly focused into 4 categories: stainless steel drawing wire (hardness and tensile strength can be accommodated per your demand), stainless steel cold heading wire, stainless steel spring wire & stainless steel welding wire. For stainless steel drawing wire, the smallest diameter we can produce is as small as 0.02mm. For stainless steel cold heading wire, we have up to 3Cu content CHQ raw material for your options. For stainless steel spring wire, we have 302, 304, 316 as the most popular grades. For stainless steel welding wire, we can produce TIG and MIG stainless steel welding wires according to your demand.

Stainless steel wire produced by CIVMATS features bright smooth finish, excellent formability and plasticity, uniform diameter with no welding points, tight tolerance in size. It is corrosion resistant, acid and alkali resistant, wear resistant and durable. Stainless steel wires produced by CIVMATS also feature high tensile strength, pure chemical compositions free from mercury or other harmful elements. Our stainless steel wires are mainly used in petroleum, electronics, food, machinery, building, aerospace, military industry, chemical industry, textile, fishery, precise instrument, hardware and artware. We warmly welcome your consultation, enquiry and order. High quality is durable.

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Manufacturing Process

Drawing & Formula



OD = Outer diameter, L = Length

L



Tolerance

Size	Perr	missible Tolera	ince		Non-noundnes	S			
0126	H8 H9 H10		H10	H11	H12	H13			
0.1 ~ 0.3	± 0.003	± 0.006	± 0.009	± 0.014	± 0.022	± 0.029			
0.3 ~ 0.6	± 0.004	± 0.009	± 0.013	± 0.018	± 0.030	± 0.038			
0.6 ~ 1.0	± 0.005	± 0.011	± 0.018	± 0.023	± 0.035	± 0.045			
1.0 ~ 3.0	± 0.007	± 0.015	± 0.022	± 0.030	± 0.050	± 0.060			
3.0 ~ 6.0	± 0.009	± 0.020	± 0.028	± 0.040	± 0.062	± 0.080			
6.0 ~ 10.0	± 0.011	± 0.025	± 0.035	± 0.050	± 0.075	± 0.100			
10.0 ~ 16.0	± 0.033	± 0.030	± 0.045	± 0.060	± 0.090	± 0.120			

Delivery State

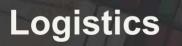
Delivery State Choice	Surface Condition				
0.4	Bright				
Soft	Polished				
	Bright				
Half-Soft	Polished				
Hard	Bright				
	Polished				
"Note: 1. If you require different deliver state than the above listed, kindly confirm with us. In case of any enquiry or order, please kindly let us know any extra requirement not indicated here."					

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Package

In Civmats, all of our stainless steel wires are packaged as per international standard to prevent any possible damage or loss. By default, we will use thick woven plastic bag to bundle SS wire that is not on spool. However, for stainless steel wire on spools, we will use carton box or wooden case. Kindly note, both spools and wooden case will incur extra cost, not only its own cost, but also the increased freight cost, which is especially true for air transportation. For enhanced customer experience, we also provide dedicated package as per your special requirements.





By default, we will quote based on sea transportation, such as FOB, CFR, CIF and the like for most enquiries or orders. Quotation based on air transportation is also optional upon your request for urgent demands.



By sea



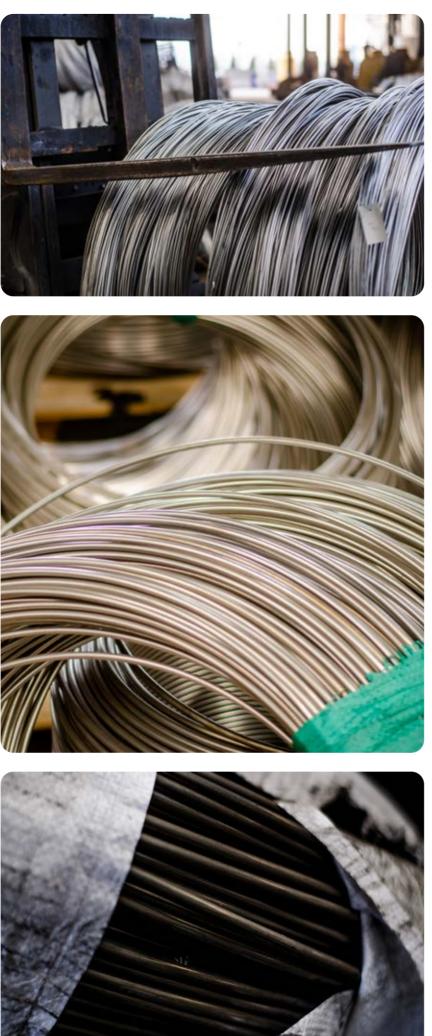
By air















Specifications

- Delivery State: Hot Rolled, Cold Drawn
- Diameter:
- a. Hot rolled wire rod: 5.5 -20mm
- b. Cold drawn wire rod: 1 -12mm
- Weight: 100Kg per roll
- Tolerance: H9, H11

Features

Anti-corrosion (the degree is susceptible to the alloys contained), heat-resistance, good cold and hot working properties, good toughness, good comprehensive performances and wide application.

Applications

Home appliances, electric appliances, construction materials, medical equipment, auto parts, petroleum, chemical application, agricultural irrigation, edible oil refinery factories, paper plants, shipyard, nuclear power plant etc.

Introduction

As the leading stainless steel supplier in China, CIVMATS produce and supply stainless steel wire rod benchmarked against the highest industry standard.

Civmats is a 30-year-old manufacturer of stainless steel materials. We produce and supply stainless steel wire rod benchmarked against the highest industry standard. Our monthly production capacity is 800MT. As per international standard ASTM A493 and ASTM A581, our stainless steel wire rod is manufactured under ISO 9001 system and exported to overseas with high customer satisfaction. We can also produce customized stainless steel wire rod as per your special demand, customization including specification standards, grades, and dimensions. If you are looking for stainless steel wire rod supplier or manufacturer in China, please don't hesitate to contact us. We will offer you the best products and services for your purchase. Welcome to send your enquiries!

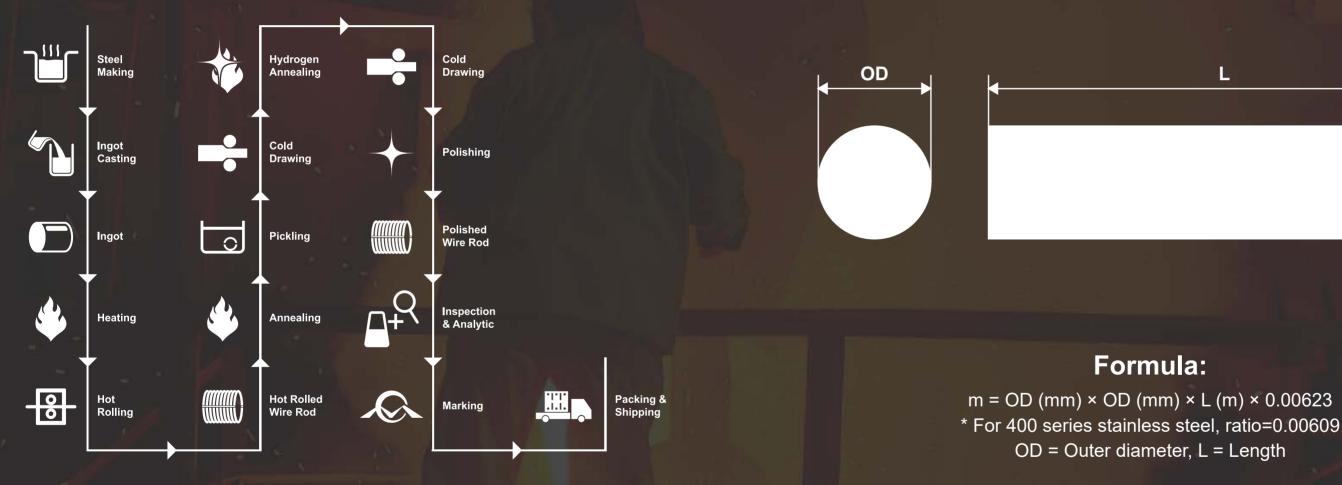
Standards

ASTM A580, ASTM A478, ASTM A492, ASTM A493, ASTM A484, ASTM A555/A555M, ASTM A313/A313M, JIS G4308, GB/T 4356

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Manufacturing Process

Drawing & Formula



L

Tolerance

	Perr	missible Tolera	ince		lon-noundnes	s		
Size	H8	Н9	H10	H11	H12	H13		
5.5 ~ 10	± 0.30	± 0.25	± 0.15	≤ 0.50	≤ 0.40	≤ 0.24		
10.5 ~ 15	± 0.40	± 0.30	± 0.20	≤ 0.60	≤ 0.48	≤ 0.32		
15.5 ~ 18	± 0.50	± 0.35	± 0.25	≤ 0.80	≤ 0.56	≤ 0.40		

Delivery State Choice Hot Rolled Cold Drawn

"Note 1. If you require different deliver state than 2. In case of any enquiry or order, please kindly le here.

Delivery State

Surface Condition						
Pickled						
Polished						
Bright						
Polished						
e: the above listed, kindly confirm with us. et us know any extra requirement not indicated e."						

Package

In Civmats, all of our stainless steel wire rods are packaged as per international standard to prevent any possible damage or loss. According to your particular demand, our package can be waterproof thick woven plastic bag and wooden case. We can also provide dedicated package as per your special requirements.





Logistics

By default, we will quote based on sea transportation, such as FOB, CFR, CIF and the like for most enquiries or orders. Quotation based on air transportation is also optional upon your request for urgent demands.



By sea



By air

















Wire Rope





Specifications

• Dimensions:

Specifications: 1×7, 1×12, 1×19, 1×37, 6×7, 6×12, 6×19, 6×25, 6×29, 6×31, 6×36, 6×37, 7×7, 7×18, 7×19, 7×35, 7×37, 17×39, 19×43 Diameter: Φ0.15mm- Φ50mm *Customized size needs to be confirmed with us

Features

Good toughness and flexibility, anti-corrosion, anti-fatigue, heat resistance, durability

Applications

Etroleum, chemical industry, textile industry, machinery, aerospace, precision instrument, construction, medical industry, auto parts, fishing, etc.

Introduction

CIVMATS produces high quality stainless steel wire rope. Our annual production capacity is roughly 8000 tons, among which stainless steel wire rope amounts to 400 tons per month. The tolerance of our stainless steel wire rope can be as small as ± 0.01 mm. CIVMATS produces strictly according to ISO9001:2000. Every product delivered from CIVMATS is a reputation warranty.

Wire rope can be divided into multi-strand wire rope and single-strand wire rope. It is structured with at least two layers of steel wire or a plurality of strands spirally wound around a center or a core. Stainless steel wire rope refers to a steel wire rope made of stainless steel.

In dynamic systems, stainless steel wire ropes are widely applied in the lifting of cranes and elevators, the transmission of mechanical power, the control of automobile cockpit poles and the operation of aircraft control systems, etc. In static systems, stainless steel wire ropes are also employed in various industries such as the stability of the sling bridge's pulling support tower and the design of new railings.

Stainless steel wire rope features high temperature resistance, good fatigue resistance, excellent breaking force, long service life and durability. It is widely used in coal, petroleum, metallurgy, chemical industry, shipbuilding, bridge, electric power, rubber, military, tourism, water conservancy and light industry. The products can be produced according to ISO, BS, DIN, JIS, ABS, LR and other international and foreign advanced standards

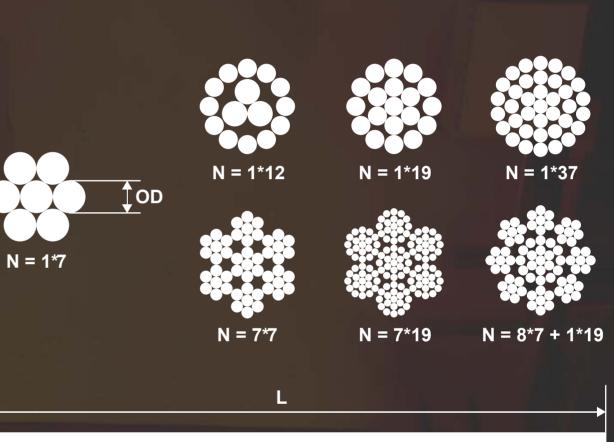
Standards

ASTM A492, JIS G3535, GB/T 9944

Drawing & Formula

Steel Making Cold Drawing Hydrogen Annealing Packing & Shipping Cold Drawing Ingot Casting ·|·|· .l.l. Polishing \mathbf{x} \Box Marking Ingot Pickling Wire _C __+ Inspection & Analytic Annealing Stranding Heating 7 8 Hot Rolled Wire Rod Wire Rope Hot Rolling Closing

Manufacturing Process



Formula:

 $m = OD (mm) \times OD (mm) \times L (m) \times N \times 0.00623$ * For 400 series stainless steel, ratio=0.00609 OD = Outer diameter, L = Length

Drawing & Formula

Size Range

Construction	Diamatar	Min Breaking Load(kg)		
	Diameter	304	316	Approx Weight
1 x 7	0.3	10	8	0.05
	0.4	17	15	0.08
	0.5	27	25	0.13
	0.6	39	34	0.18
	0.8	68	60	0.32
	1	105	90	0.5
	1.2	150	150	0.74
	1.5	230	210	1.15
	1.8	330	300	1.63
	2	410	370	2.05
1 x 12	1	95	80	0.49
	1.2	140	120	0.7
	1.4	190	160	0.95
	1.5	215	185	1.09
	1.6	245	210	1.24
		310	269	1.56

0.8 60	50 0.32
1 95 8	80 0.5
1.2 140 1	20 0.72
1.5 245 1	85 1.12
1.6 260 2	210 1.27
1.8 310 2 1 x 19	265 1.61
	330 2
2.5 570 5	3.1
3 730 6	660 4.48
3.5 950 8	60 6
5 1880 1	700 12.5
6 2700 33	330 18.1
0.8 50	45 0.27
1 75	65 0.42
1.2 108	96 0.61
1.5 170 1	50 0.95
1.6 190 1	70 1.08
1.8 245 2 7 x 7	216 1.34
	260 1.65
2.5 460 4	00 2.57
3 660 5	585 <u>3.71</u>
3.5 900 7	' 96 5.05
5 1800 10	620 10
2500 23	300 14.4

7 x 19	1.5	160	130	0.95
	1.6	180	150	1.08
	2	280	231	1.68
	2.5	435	390	2.63
	3	625	565	3.78
	3.5	830	750	5.28
	4	1100	970	6.7
	5	1700	1520	10.5
	6	2450	2200	15.2
8 x 7 + 1 x 19	1.5	160	160	0.95
	1.8	260	260	1.34
	2	330	330	1.65

Rope Core and Code

a. Fiber core (natural or synthetic): FC, such as FC stainless steel wire rope.

b. Natural fiber core: NF, such as NF stainless steel wire rope.

c. Synthetic fiber core: SF, such as SF stainless steel wire rope.

d. Wire rope core: IWR (or IWRC), such as IWR stainless steel wire rope.

e. Wire core: IWS, such as IWS stainless steel wire rope.

Package

In CIVMATS, all of our stainless steel wire ropes are packaged as per international standard to prevent any possible damage or loss. They are neatly wrapped in accurate length with securely tied rope ends. For enhanced customer experience, we also provide dedicated package as per your special requirements.



Logistics

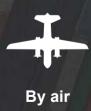
By default, we will quote based on sea transportation, such as FOB, CFR, CIF and the like for most enquiries or orders. Quotation based on air transportation is also optional upon your request for urgent demands.



By sea

Rope Core and Code









Office: 4th Floor, Building 8, Feng Lin Ya Du, Changzhou, Jiangsu, China, 213023 Tel: +86-519-81809659 E-mail: sales@civmats.com Factory: DaiNan Technology Park, Xing Hua City, Jiangsu, China Tel: +86-18915805386

