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http://www.sakura-tech.co.jp/english





SAKURATECH aims at contributing to every application and industrial society as a pioneer of ultra thick galvanization technology, and continues to supply to all job sites, and fields from civil engineering to everyday items through the development, manufacture and sale of wire products. We will lead the future of galvanized iron and steel wire through the trust and achievements that we establish continuously as a high valued planning and development company.

Point 1 , Longer lasting	Our wire is coated with several times more zinc than other commercially available wire, making durable lifetimes several times longer too.
Point 2. More economical	Our wire is economical because it is so long-lasting and very rarely needs replacing.
Point 3. Easier to use	Our wire has great formability and the plating will not flake off however much the wire is bent.
Point 4 . Better looking	Our wire does not rust. It does not break and keeps its beautiful luster for a long time.

Steel wire

SAKURATECH's ultra thick galvanized steel wire uses only high quality materials purchased from the strictly selected manufacturers.

We pursue various properties thoroughly in accordance with the application and environment of use, etc.

Iron-zinc alloy layer

Iron and zinc form an alloy easily at high temperatures and an iron-zinc alloy layer is formed on the surface of galvanized steel wire. This alloy layer is hard and brittle. SAKURATECH controls the thickness of this layer in accordance with the application to increase the strength of the plating and its workability.

Galvanized layer

The galvanized layer not only shields the steel wire from the external environment, but also has the function of protecting the iron from corrosion as the zinc corrodes preferentially. The thickness of this layer determines the lifetime of galvanized steel wire.

COMPANY GUIDE

Company Name SAKURATECH Co., Ltd

Founded November 1939

apital ¥ 90million

President Hidenori Ohashi

Headquarters Head Office / Warehouse

3-10-7 Kawada, Higashi-Osaka, Osaka,

578-0905 JAPAN TEL.+81-72-984-1234 FAX.+81-72-988-1619

Gifu Plant

2-18 Himegaoka, Kani, Gifu, 509-0249 JAPAN TEL.+81-574-62-6261 FAX.+81-574-62-6784





Head Office / Warehouse

Gifu Plant

COMPANY HISTORY

November 1939 Sakura Steel Wire Co., Ltd., founded in

started production of stainless steel wire

nd other special steel wire

pril 1948 Converted to production of flexible steel win

products (mainly galvanized steel wire)

October 1972 First company in Japan to succeed in the

commercialization of ultra thick galvanize

steel wire

February 1977 Constructed a high-speed galvanizing plant

with increased demand for ultra thick galvanized steel wire (introduced gas wiping technology from AWI of Australia), enabling the production of wire with a zinc coating

eight of 500g per square meter

October 1991 Company changed name to

July 1993 Reacquired the license to display "IIS G

wire" in association with the amendment and institution of the JIS; started sales of zinc-aluminum alloy galvanized steel wire

April 2007 Closed Osaka Plant and concentrated

production at Gifu Plant

July 2008 Received certification for the new JIS mark

olav system

April 2009 Developed rough galvanized steel wire to the new standard of the Ministry of Land,

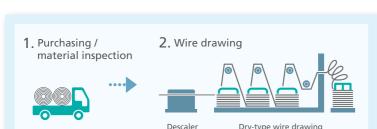
rastructure, Transport and Tourism

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We create the best products with a uniform production system.

SAKURATECH has used the company's many years of experience in pioneering ultra thick galvanized steel wire and establishing an extremely intelligent uniform system for everything from the procurement of materials to the drawing of wire, galvanization and product inspection.

We practice strict quality control across all processes to create unique products that cannot be mimicked by our competitors.



1. Purchasing / material inspection

We order various materials matched to the application from carefully selected wire material manufacturers and carry out acceptance inspections of the type of packing and external appearance, etc. In addition, we also carry out material inspections that check the adequacy of the wire rods



2. Wire drawing



We remove the scaling on the surface of the wire rods and adopt the appropriate wire drawing technique for the application. We use a carbide die to draw the wire out to the designated size efficiently.



3. Annealing / plating / winding Supply Annealing furnace Cooling Acid bath tank Water bath tank Flux processing Drying Plating furnace Take-up

3. Annealing / plating / winding

In the annealing process that softens the drawn out steel wire we adjust the temperature settings and processing time in accordance with the product category and size. Also, in the galvanization process, we can produce products of all grades using various technologies such as the gas wiping method, etc. After galvanization, the wire is wound onto carriers.



Annealing furn





4. Inspection

5. Storage / shipping



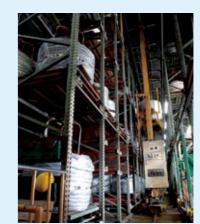
4. Inspection

We inspect whether or not products clear the designated specifications such as wire diamete tensile strength, elongation, zinc coating weight, etc.



Tension test analytical equipmen

5. Storage / shipping



Products are entered and dispatched to and from the rack building under computer control. We take all possible measures over storage conditions so that products are not discolored, etc., using dehumidification equipment, and deliver products of certain quality using a just-in-time system.



Automated product warehous

Shippin

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We respond to the various demands of customers with a variety of products.

Galvanized steel wire is used in a variety of areas such as basket mats, rockfall prevention nets and aquaculture nets, etc. However, the strength, durability and workability required differ in each area where the products are used. SAKURATECH develops the most appropriate steel wire for each respective application. We command a plentiful line-up of products that is received well in various industries.

New Ganbaru Z Techno-Sarf (Rough galvanized steel wire with 10% zinc-aluminum alloy)

This is a rough galvanized steel wire with 10% zinc-aluminum alloy developed for use in basket (gabion) mat's cover net area. This product has more than twice the durability of zinc galvanized steel wire and has been processed to make it difficult to slip on in consideration of work safety in response to the new standard of the Ministry of Land, Infrastructure, Transport and Tourism.

Details: p.07







Ganbaru Z (Galvanized steel wire with 10% zinc-aluminum alloy)

This is a galvanized steel wire with 10% zinc-aluminum alloy that combines the strength of aluminum with the protective capabilities of zinc plating to realize more than twice the durability of zinc plated galvanized steel wire and flexible workability. This product has been adopted for use in rivers nationwide.

Details: p.08



3. Ultra thick galvanized for use in aquaculture Ultra thick galvanized wire

This is ultra thick galvanized wire for use in aquaculture that fitted market needs using the galvanizing technology and product development capabilities that SAKURATECH has built up over many years. We supply high value added products based on 4 types of ultra thick galvanized wire that use highly corrosion resistance wire rods and combine superior corrosion resistance and durability properties.

▶ Details: p.09 / p.10



4. Ganbaru Z high carbon steel wire (High carbon galvanized steel wire with 10% zinc-aluminum alloy)

The concrete block embankment protection construction method continues to be adopted as a neo-natural river reconstruction method. Ganbaru Z high carbon steel wire is a concrete block connection wire that uses strong steel wire giving it superior characteristics in terms of both strength and durability.

Details: p.11



Ganbaru Z hard steel wire (Galvanized hard steel wire with 10% zinc-aluminum alloy)

This product has the same excellent durability as conventional Ganbaru Z and is used mainly as a civil engineering and construction material. We increase its strength without carrying out annealing, allowing this product to display its power in usage under even

tougher conditions. ▶ Details: p.11



6. Rockfall prevention nets

Details: p.12

▶ Details: p.12

Wire fencing Mesh fence / Netting fence

▶ Details: p.12

SS barbed wire

O (Barbed wire)

Yutaka

Yutaka
Standard wire for use on fruit farms)

▶ Details: p.12

Standard galvanized steel wire

11. Special ultra thick galvanized steel wire (make to order)

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Details: p.13

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New Ganbaru Z Techno-Sarf

(Rough galvanized steel wire with 10% zinc-aluminum alloy)

This is a galvanized steel wire with zinc-aluminum alloy that is difficult to slip on. We developed this product for use in cover netting in consideration of the securement of safety during basket mat construction work and the safe use of waterfront areas after the completion of work. This product has a highly corrosion resistant structure for more than twice the corrosion resistance of conventional galvanized steel wire.



Product name	Carla	Diameter Diameter tolerance		Tensile strength	Elongation	Coating weight	Aluminum concentration
	Code	mm	±mm	N / mm²		g / m²	%
New Ganbaru Z Techno-Sarf	NEO A ZD	4.00	0.10	200	10	F00	10
	N50AZR	5.00	0.12	290 or more	10 or more	500 or more	10 or more

Ganbaru Z

(Galvanized steel wire with 10% zinc-aluminum alloy)

This product was developed to preserve a long life even in punishing environments of quick corrosion for fences and basket mats in industrial zones and coastal areas. We combined the strength of aluminum with the protective capabilities of zinc by applying aluminum and zinc alloy plating to realize the best durability and workability. With the gabion method that uses natural stones to build up protection the greenery of plants comes back to life in a very short time without spoiling the view.



Dan dank manna	C- 4-	Diameter	Diameter tolerance	Tensile strength	Elongation	Coating weight	Aluminum concentration	
Product name	Code	mm	±mm	N / mm²	%	g / m²	%	
		3.20	0.09					
		4.00	0.10					
C - 1 - 1 - 7	20047	5.00	0.12	200	40	40	200	10
Ganbaru Z	300AZ	6.00	0.12	290 or more	10 or more	300 or more	10 or more	
		8.00 0.12						
		9.00	0.12					

^{*}The wire diameters shown above differ in special order products.

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Ultra thick galvanized wire for use in aquaculture

Ultra thick galvanized steel wire

We realized strong corrosion resistance with ultra thick galvanization in excess of the specifications.

This is the standard galvanized wire with extensive results in aquaculture cages.

Duralisat mana	Carla	Diameter	Diameter Diameter tolerance		Elongation	Coating weight	Aluminum concentration
Product name	Code	mm	±mm	N / mm²	%	g/m²	%
		2.60	0.08	290-540			
	500	3.20	0.09		10 or more	500 or more	_
	500	3.60	0.10				
		4.00	0.12				
Galvanized		2.60	0.08			600 or more	-
steel wire		2.90					
	500	3.20		200 540	4.0		
	600	3.60	0.10	290-540	10 or more		
		4.00	0.10				
		5.00	0.12				

Ultra thick galvanized steel wire with zinc-aluminum alloy

(Special galvanized wire with 10% zinc-aluminum alloy)

Even in rough marine environments where corrosion progresses easily, this wire displays astounding durability because of the strong coating effects of 10% zinc-aluminum alloy plating. This is the representative galvanized wire used most often in metal mesh cages.

Duo duot nomo	Codo	Diameter	Diameter tolerance	Tensile strength	Elongation	Coating weight	Aluminum concentration
Product name	Code	mm	±mm	N / mm²	%	g/m²	%
		2.60	0.09	290-540	10 or more	500 or more	
		3.20	0.09				10 or more
Ganbaru Z		3.60	0.10				
Ganbaru Z	500AZ	4.00	0.10				
		5.00	0.12				
		6.00	0.12				

Ultra thick special galvanized wire

(Special galvanized wire; uses 1.0% chrome added wire rods)

This product uses highly corrosion resistant wire rods as the material for ultra thick special galvanized wire.

It is a special wire that we developed for use in aquaculture cages over more than 30 years.

Product name	Code	Diameter Diameter tolerance		Tensile strength	Elongation	Coating weight	Aluminum concentration
	Code	mm	±mm	N / mm²	%	g / m²	%
Special galvanized wire	5000	2.60	0.08	290-540	10 or more	500 or more	
		3.20	0.09				
	500R	3.60	0.10				_
		4.00	0.12				

Ultra thick special galvanized wire with zinc-aluminum alloy

(Special galvanized wire with 10% zinc-aluminum alloy; uses 1.0% chrome added wire rods)

Even in rough marine environments where corrosion progresses easily,

this wire displays astounding durability because of the strong coating effects of the 10% zinc-aluminum alloy plating.

Moreover, we doubled corrosion resistance in comparison to ordinary wire materials by using highly corrosion resistant wire rods.

In combination with its high strength, this product can also withstand severe bending and winding and does not break or crack.

Product name	Codo	Diameter	Diameter tolerance	Tensile strength	Elongation	Coating weight	Aluminum concentration
	Code	mm	±mm	N / mm ²	%	g / m²	%
	T50AZ	2.60	0.08	290-540	10 or more	500 or more	10 or more
Ganbaru Z special		3.20	0.09				
galvanized wire		3.60	0.10				
		4.00	0.10				

Ordinary wire rod and highly corrosion resistant wire rod corrosion comparison survey results

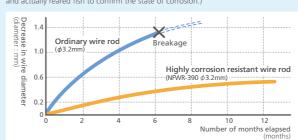
The strength of the highly corrosion resistant wire rod used in Ganbaru Z special galvanized wire has been proven by many tests and a lot of data.

Undersea corrosion test

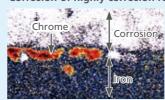
Aquaculture cage corrosion comparison

(We manufactured aquaculture cages using unprocessed steel wire

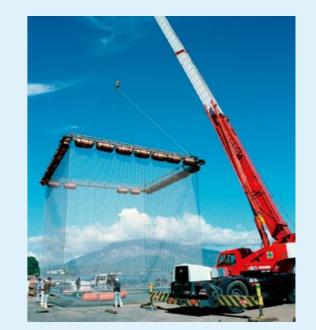
and actually reared fish to confirm the state of corrosion.)



Corrosion of highly corrosion resistant wire rod



A layer of thickened chrome was confirmed at the boundary of the iron and corrosion. The progress of corrosion is controlled by the action of the chrome.



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Ganbaru Z high carbon steel wire

(High carbon galvanized steel wire with 10% zinc-aluminum alloy)

We used hard steel wire as the material for this zinc-aluminum alloy galvanized wire to realize high strength and durability that cannot be obtained using flexible steel wire. Ganbaru Z high carbon steel wire uses those superior properties to support the safety of the concrete block embankment protection construction method.

Product name	Code	Diameter Diameter tolerance		Tensile strength	Elongation	Coating weight	Aluminum concentration
	Code	mm	±mm	N / mm ²		g / m²	
Ganbaru Z high carbon steel wire	300AZH	6.00	0.12	600 or more	10	200	10 01 2000
		8.00	0.12	690 or more	10 or more	300 or more	10 or more

Ganbaru Z hard steel wire

(Galvanized hard steel wire with 10% zinc-aluminum alloy)

This product has the same excellent durability as conventional Ganbaru Z and is used mainly as a civil engineering and construction material. We increase its strength without carrying out annealing, allowing this product to display its power in usage under even tougher conditions.



Product name	Code	Diameter	Diameter tolerance	Tensile strength	Elongation	Coating weight	Aluminum concentration
Product name		mm	±mm	N / mm²		g / m²	%
		3.20	0.09	540-830			
		4.00	0.12				
Ganbaru Z	112047	5.00	0.12	490-780	_	300 or more	10 or more
hard steel wire	H30AZ	6.00	0.12			300 or more	10 of more
		8.00	0.12	450-780			
		9.00	0.12	450-760			

SAKURATECH's thick galvanized wires have a good reputation for their durability and corrosion resistance and the needs for these wires are extending over the wide fields.

Rockfall prevention nets

This product supports the road safety any and all places.





Wire fencing

SAKURATECH's thick galvanized wire is being used to produce wire fencing protects people at danger zones, schools, car parks, etc.





Mesh fence







SS barbed wire

(Barbed wire)

This product has been favorably received by many farmers since its release onto the market.



Yutaka

(Standard wire for use on fruit farms)

This is a best seller among wires for use on fruit farms as an economical product.



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Standard galvanized steel wire (JIS G 3547)

		Diameter	Diameter tolerance	Tensile strength	Elongation	Number of twist	Coating weight	Winding
Category	Code	mm	±mm	N / mm ²		No. of times	g / m²	Multiple of diameter
		1.80	0.05				20 or more	
		2.00	0.03				25 or more	
	GS-2	2.60 3.20	0.07	290-540	10 or more	_	30 or more	_
	G3-2	4.00	0.08	250-540	10 01 111016		35 or more	
		5.00	0.12	7			45 or more	
		6.00					50 or more	
		2.00	0.05	_		52 or more	90 or more	3.0
		2.60 3.20	0.07			39 or more 30 or more	120 or more 135 or more	
	GS-3	4.00	0.08	290-540	10 or more	24 or more	133 01 111016	4.0
		5.00	0.10			20 or more	155 or more	
		6.00	0.12			15 or more		
		2.00	0.05	_		44 or more	155 or more	
		2.60 3.20	0.07			33 or more	185 or more 230 or more	4.0
	GS-4	4.00	0.08	290-540	10 or more	26 or more 21 or more	230 or more	
	03-4	5.00	0.10	290-340	10 of filore	17 or more	245 or more	
Galvanized		6.00	0.12	7		13 or more	245 or more	5.0
Galvailizeu		8.00				7 or more		
steel wire (S)		2.00	0.05	_		44 or more	200 or more	
Steel Wile (5)		2.60 3.20	0.07			33 or more 26 or more	230 or more 270 or more	5.0
	GS-5	4.00	0.08	290-540	10 or more	21 or more	270 01 111016	
	43.3	5.00	0.10			17 or more	i	5.0
		6.00	0.12	7		13 or more	290 or more	5.0
		8.00	0.12			7 or more		
		2.60 3.20	0.09			33 or more 26 or more		4.0
	GS-6	4.00	0.10	290-540	10 or more	21 or more	300 or more	
	930	5.00		250 540	10 or more	17 or more	_ Soo or more	5.0
		6.00	0.12			13 or more		
		2.60	0.09			33 or more		4.0
	66.7	3.20		200 540	4.0	26 or more	400	
	GS-7	4.00 5.00	0.10	290-540	10 or more	21 or more 17 or more	400 or more	5.0
		6.00	0.12			13 or more		5.0
		2.00	0.05	500.000		10 01 111010	25	
		2.60	0.06	590-880			25 or more	
	GH-2	3.20		540-830	_	_	30 or more	_
		4.00 5.00	0.07	390-780			35 or more	
		6.00	0.08	390-760			45 or more	
		2.00	0.05	F00 000			90 or more	
Galvanized		2.60	0.06	590-880			120 or more	3.0
Gaivanizea	GH-3	3.20		540-830	_	_	135 or more	
steel wire (H)	GH-3	4.00 5.00	0.07	390-780				
		6.00	0.08	390-700			155 or more	
		2.00	0.05	500.000				
		2.60		590-880			185 or more	
		3.20	0.07	540-830	_	_	230 or more	
	GП-4	4.00	0.08				245 04	F 0
		5.00 6.00	0.10 0.12	390-780			245 or more	e 5.0
	1	0.00	U.12			1	1	

^{*}We produce wires in diameters other than those shown above by order.

Special ultra thick galvanized steel wire (make to order)

Citizan	C. I.	Diameter	Diameter tolerance	Tensile strength	Elongation	Number of twist	Coating weight	Winding
Category	Code	mm	±mm	N / mm ²	%	No. of times	g/m²	Multiple of diameter
		2.00	0.06			44 or more		4.0
300	300	8.00 9.00	0.12	290-540	10 or more	7 or more	300 or more	5.0
		10.00		400				4.0
400	400	2.00	0.06	290-540	10 or more	44 or more	400 or more	4.0
400	400	8.00	0.12	290-340	10 or more	7 or more	400 01 111016	5.0
		2.60				33 or more		4.0
		2.90	0.08			26 or more		7.0
		3.20		290-540	10 or more		500 or more	
500	500	3.60	0.10			21 or more		
		4.00				40		5.0
		5.00	0.13			19 or more		
		6.00 8.00	0.12			15 or more		
		2.60				33 or more		
		2.90	0.08					4.0
		3.20	0.00			26 or more		
600	600	3.60	0.10	290-540	10 or more	24	600 or more	5.0
		4.00				21 or more		3.0
		5.00	0.12			19 or more		

^{*}SAKURATECH manufactures special ultra thick galvanized steel wire to order.

Quality Control

For the sake of stable supply

In addition to a wealth of experience and accumulated technology in regard to galvanization, SAKURATECH will redouble its research efforts and provide high quality products that are able to respond quickly to the demands of customers.

Product inspections

In order to create high quality products

SAKURATECH carries out strict manufacturing control from the acceptance of wire rods to each step in the manufacturing process and carries out quality checks from the standpoint of the customer. We carry out regular inspections based on various mechanical tests to pursue more stable quality levels. In addition, we also conduct analysis of corrosion properties, workability and strength, etc., in accordance with the application.





Storage / shipping

In order to provide fast, safe service

SAKURATECH has both Gifu Warehouse and Osaka Warehouse where it stores products safely in order to transport those products to customers more speedily. We take all possible measures over storage conditions so that products are not discolored, etc., using dehumidification equipment, and deliver products of certain quality using a just-in-time system.





Top Message

We contribute to the development of society by the development of new galvanization technology.



Hidenori Ohashi, President

Since becoming the first company in Japan to succeed in the development of ultra thick galvanized steel wire in 1972, we have contributed to the creation of a more prosperous society through the manufacture and sale of high quality wire products. In recent years, the changing of the times has become more and more complicated and wide-ranging, and with things such as the rapid technological innovation in our customers' industries and changes in the global economic structure, we find ourselves in a situation that will not let us stand still. In such circumstances, we value the needs of our customers above all else and are working on making better products and creating new products standing truly in the position of the customer. In addition to a wealth of experience and accumulated technology in regard to galvanization, we intend to redouble our research efforts and strive together as a company towards the development of the new products that the age demands.