

# CORPORATE PROFILE

Fine plating technology for the future and society

 SAKURATECH CO., LTD.

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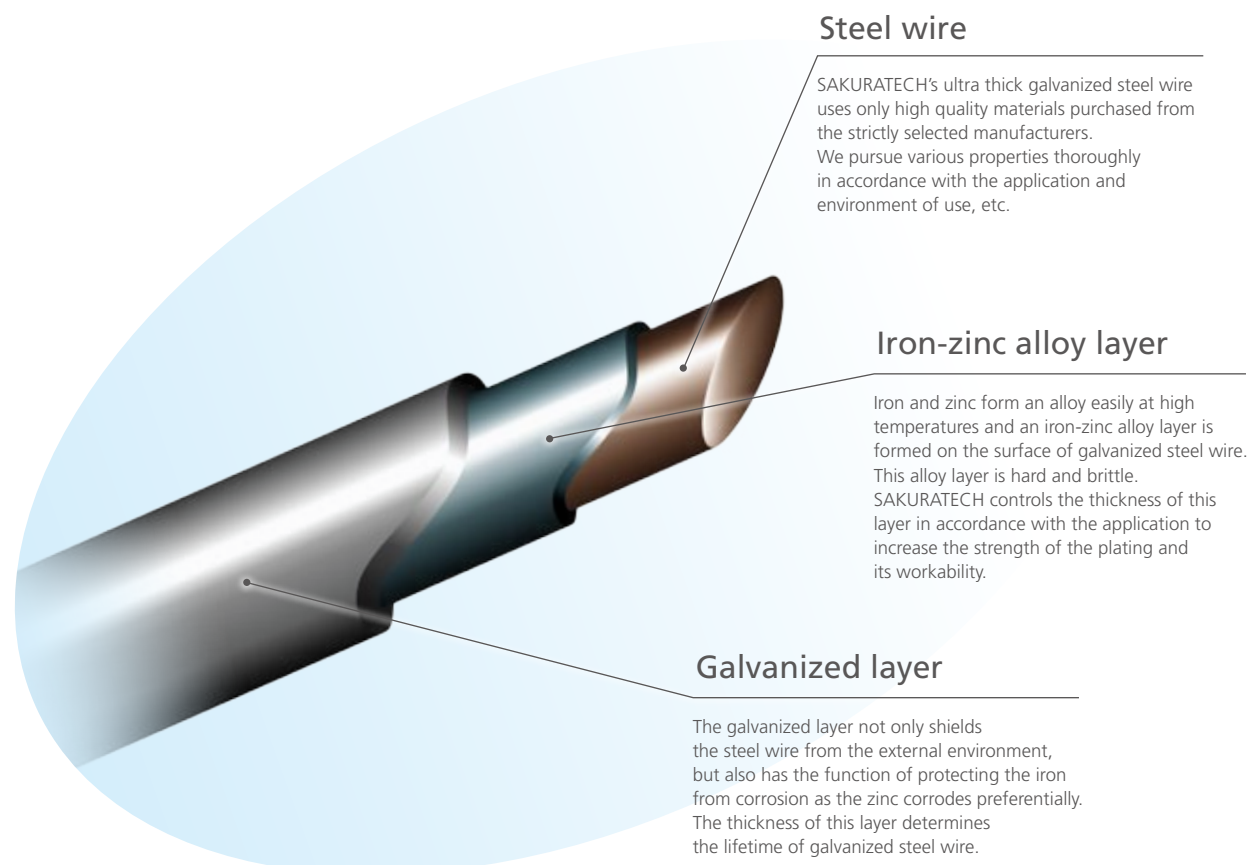




# Fine plating technology for the future and society

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.



## COMPANY GUIDE

Company Name	SAKURATECH Co., Ltd.
Founded	November 1939
Capital	¥ 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

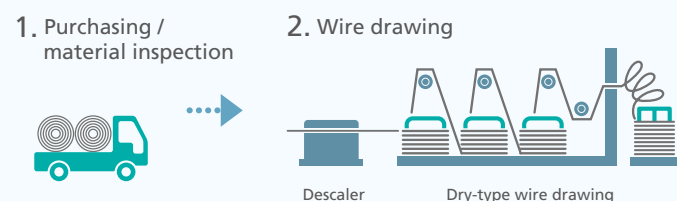
## COMPANY HISTORY

- November 1939** Sakura Steel Wire Co., Ltd., founded in Higashi Osaka City, Osaka Prefecture; started production of stainless steel wire and other special steel wire
- April 1948** Converted to production of flexible steel wire products (mainly galvanized steel wire)
- October 1972** First company in Japan to succeed in the commercialization of ultra thick galvanized steel wire
- February 1977** Constructed a high-speed galvanizing plant in Kani City, Gifu Prefecture in association 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 weight of 500g per square meter
- October 1991** Company changed name to SAKURATECH Co., Ltd.
- July 1993** Reacquired the license to display "JIS G 3532 steel wire" and "JIS G 3547 Galvanized steel 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 display system
- April 2009** Developed rough galvanized steel wire to the new standard of the Ministry of Land, Infrastructure, Transport and Tourism



# 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

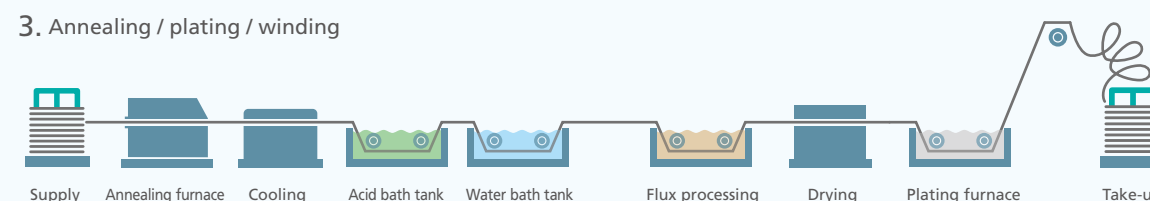
We order various materials matched to the application from carefully selected wire material manufacturers and carry out acceptance inspections of the type of packing and external appearance, etc. In addition, we also carry out material inspections that check the adequacy of the wire rods.



## 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

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.



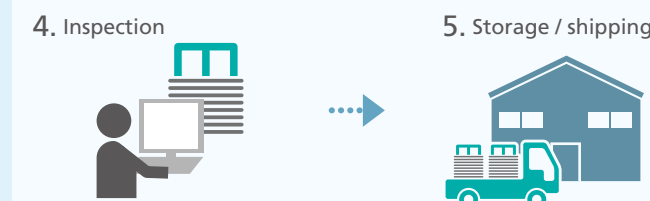
Annealing furnace



Plating furnace



Take-up



## 4. Inspection

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



Tension test analytical equipment

## 5. Storage / shipping



Automated product warehouse

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.



Shipping



# 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.

## 1. 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



## 2. 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 wire for use in aquaculture

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



## 5. 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

## 7. Wire fencing Mesh fence / Netting fence

►Details: p.12

## 8. SS barbed wire (Barbed wire)

►Details: p.12

## 9. Yutaka (Standard wire for use on fruit farms)

►Details: p.12

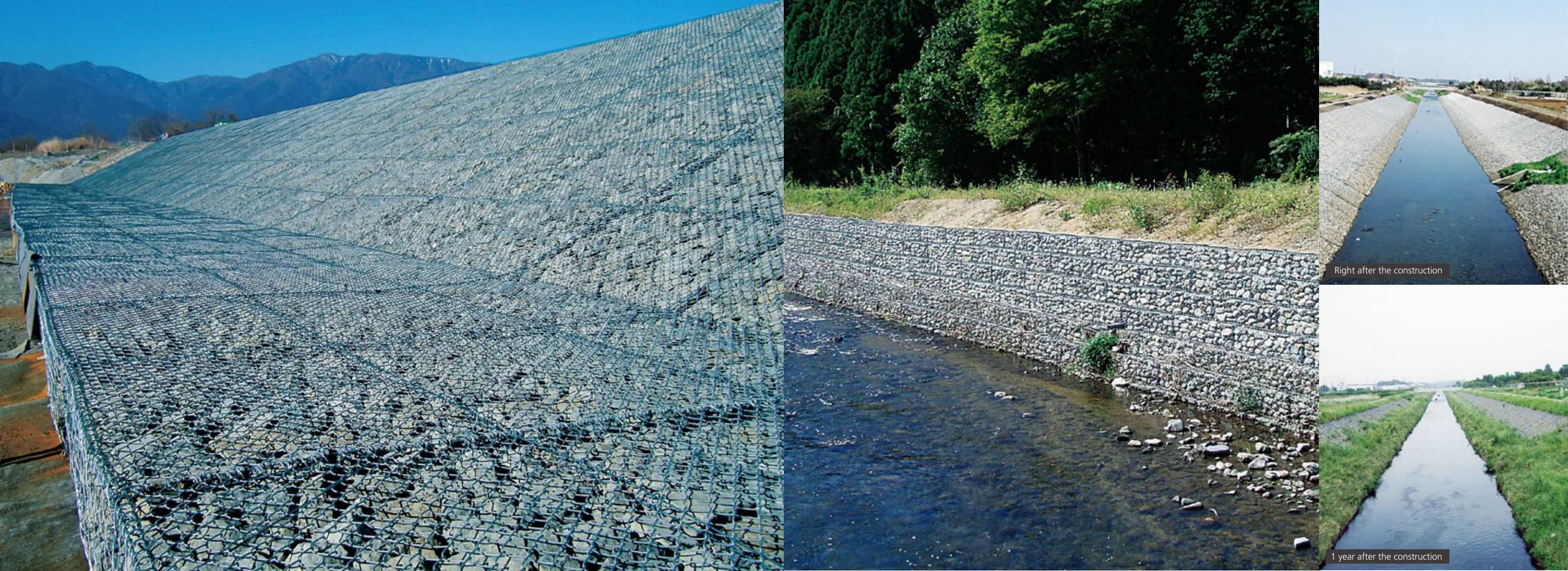
## 10. Standard galvanized steel wire (JIS G 3547)

►Details: p.13

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

►Details: p.13





# 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	Code	Diameter	Diameter tolerance	Tensile strength	Elongation	Coating weight	Aluminum concentration
		mm	±mm	N / mm <sup>2</sup>	%	g / m <sup>2</sup>	%
New Ganbaru Z Techno-Sarf	N50AZR	4.00	0.10	290 or more	10 or more	500 or more	10 or more
		5.00	0.12				

# 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.



Product name	Code	Diameter	Diameter tolerance	Tensile strength	Elongation	Coating weight	Aluminum concentration
		mm	±mm	N / mm <sup>2</sup>	%	g / m <sup>2</sup>	%
Ganbaru Z	300AZ	3.20	0.09	290 or more	10 or more	300 or more	10 or more
		4.00	0.10				
		5.00	0.12				
		6.00	0.12				
		8.00	0.12				
		9.00	0.12				

\*The wire diameters shown above differ in special order products.





# 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.

Product name	Code	Diameter	Diameter tolerance	Tensile strength	Elongation	Coating weight	Aluminum concentration
		mm	±mm	N / mm <sup>2</sup>	%	g / m <sup>2</sup>	%
Galvanized steel wire	500	2.60	0.08	290-540	10 or more	500 or more	—
		3.20	0.09				
		3.60	0.10				
		4.00	0.12				
	600	2.60	0.08	290-540	10 or more	600 or more	—
		2.90					
		3.20					
		3.60	0.10				
		4.00					
		5.00					

## 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.

Product name	Code	Diameter	Diameter tolerance	Tensile strength	Elongation	Coating weight	Aluminum concentration
		mm	±mm	N / mm <sup>2</sup>	%	g / m <sup>2</sup>	%
Ganbaru Z	500AZ	2.60	0.09	290-540	10 or more	500 or more	10 or more
		3.20	0.09				
		3.60	0.10				
		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
		mm	±mm	N / mm <sup>2</sup>	%	g / m <sup>2</sup>	%
Special galvanized wire	500R	2.60	0.08	290-540	10 or more	500 or more	—
		3.20	0.09				
		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)

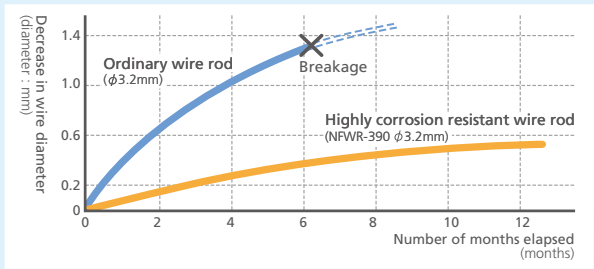
Even in rough marine environments where corrosion progresses easily, this wire displays astounding durability because of the strong coating effects of the 10% zinc-aluminum alloy plating.  
Moreover, we doubled corrosion resistance in comparison to ordinary wire materials by using highly corrosion resistant 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	Code	Diameter	Diameter tolerance	Tensile strength	Elongation	Coating weight	Aluminum concentration
		mm	±mm	N / mm <sup>2</sup>	%	g / m <sup>2</sup>	%
Ganbaru Z special galvanized wire	T50AZ	2.60	0.08	290-540	10 or more	500 or more	10 or more
		3.20	0.09				
		3.60	0.10				
		4.00	0.10				

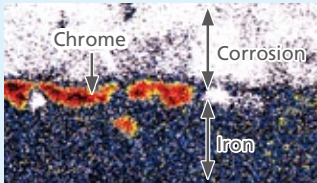
### Ordinary wire rod and highly corrosion resistant wire rod corrosion comparison survey results

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.







# 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
		mm	±mm	N / mm <sup>2</sup>	%	g / m <sup>2</sup>	%
Ganbaru Z high carbon steel wire	300AZH	6.00	0.12	690 or more	10 or more	300 or more	10 or more
		8.00	0.12				

# 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
		mm	±mm	N / mm <sup>2</sup>	%	g / m <sup>2</sup>	%
Ganbaru Z hard steel wire	H30AZ	3.20	0.09	540-830	—	300 or more	10 or more
		4.00	0.12	490-780			
		5.00	0.12				
		6.00	0.12				
		8.00	0.12	450-780			
		9.00	0.12				

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

### Netting 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.





Standard galvanized steel wire (JIS G 3547)

Category	Code	Diameter	Diameter tolerance	Tensile strength	Elongation	Number of twist	Coating weight	Winding		
		mm	±mm	N / mm <sup>2</sup>	%	No. of times	g / m <sup>2</sup>	Multiple of diameter		
Galvanized steel wire (S)	GS-2	1.80	0.05	290-540	10 or more	—	20 or more	—		
		2.00					25 or more			
		2.60					30 or more			
		3.20	35 or more							
		4.00	45 or more							
		5.00	50 or more							
	6.00	90 or more								
	GS-3	2.00	0.05	290-540	10 or more	52 or more	90 or more	3.0		
		2.60	0.07			39 or more	120 or more			
		3.20	0.08			30 or more	135 or more			
		4.00	0.10			24 or more	155 or more	4.0		
		5.00	0.12			20 or more				
		6.00	0.12			15 or more				
	GS-4	2.00	0.05			290-540	10 or more	44 or more	155 or more	4.0
		2.60	0.07	33 or more	185 or more					
		3.20	0.08	26 or more	230 or more					
		4.00	0.10	21 or more	245 or more			5.0		
		5.00	0.12	17 or more						
		6.00	0.12	13 or more						
	GS-5	2.00	0.05	290-540	10 or more			44 or more	200 or more	5.0
		2.60	0.07			33 or more	230 or more			
		3.20	0.08			26 or more	270 or more			
		4.00	0.10			21 or more	290 or more	5.0		
		5.00	0.12			17 or more				
		6.00	0.12			13 or more				
	GS-6	2.60	0.09			290-540	10 or more	33 or more	300 or more	4.0
		3.20	0.10	26 or more						
		4.00	0.12	21 or more						
		5.00	0.12	17 or more	400 or more			5.0		
		6.00	0.12	13 or more						
		GS-7	2.60	0.09					290-540	10 or more
	3.20		0.10	26 or more						
	4.00		0.12	21 or more						
	5.00		0.12	17 or more	5.0					
	6.00		0.12	13 or more						
	Galvanized steel wire (H)		GH-2	2.00		0.05	590-880	—		
2.60		0.06		540-830	30 or more					
3.20		0.07		390-780	35 or more					
4.00		0.08		45 or more						
5.00		0.08								
GH-3		2.00	0.05	590-880	—	—	90 or more	3.0		
		2.60	0.06	540-830			120 or more			
		3.20	0.07	390-780			135 or more			
		4.00	0.08	155 or more			4.0			
		5.00	0.08							
GH-4		2.00	0.05	590-880	—	—	185 or more	5.0		
		2.60	0.07	540-830			230 or more			
	3.20	0.08	390-780	245 or more						
	4.00	0.10								
	5.00	0.12								