



- Basekim Steel Products

# STEEL WIRE ROD



**“WIRE ROD: THE FOUNDATION  
OF COUNTLESS INDUSTRIAL  
SOLUTIONS”**

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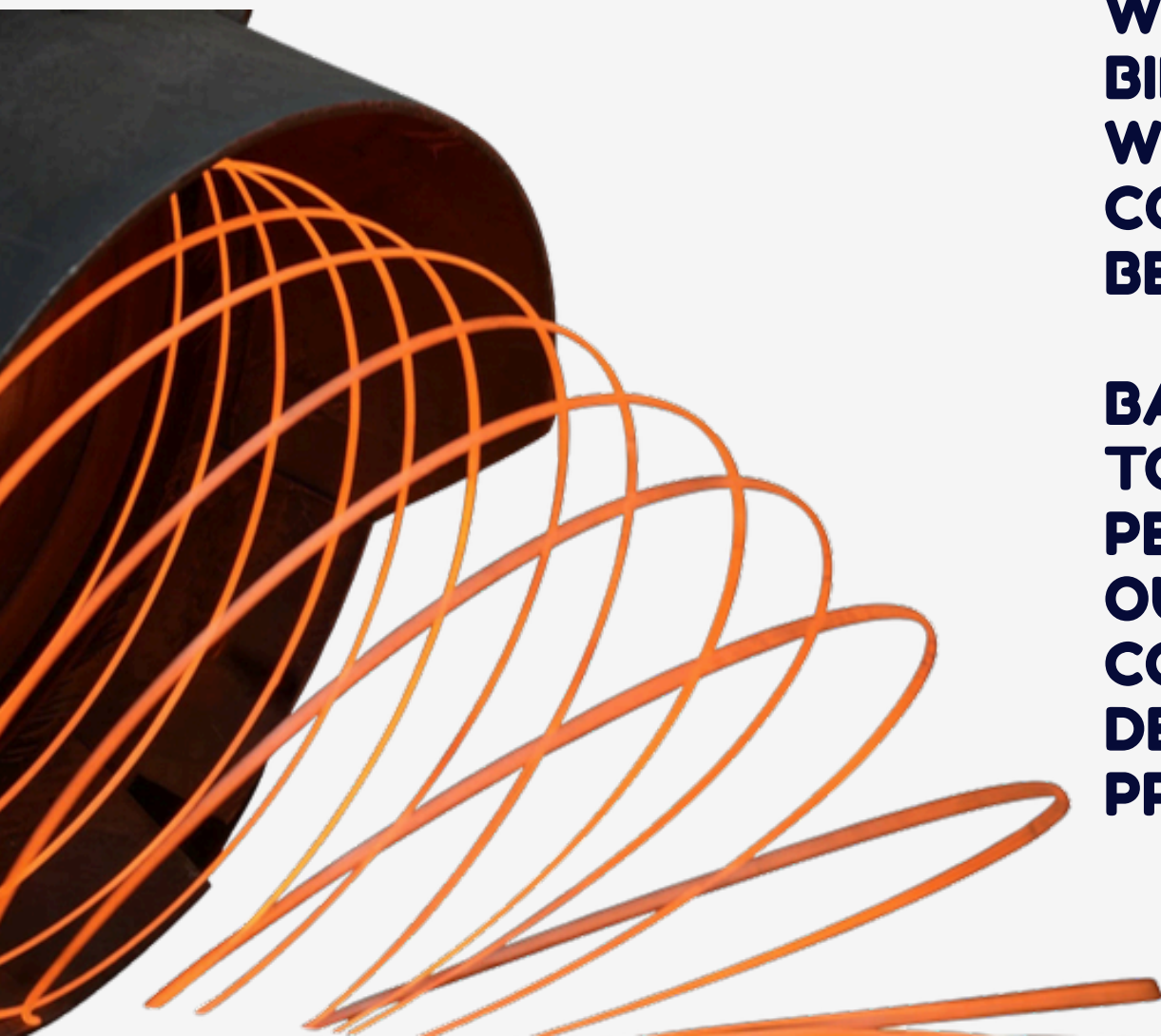
# STEEL WIRE ROD

**STEEL WIRE ROD IS A VERSATILE SEMI-FINISHED STEEL PRODUCT WIDELY USED AS THE RAW MATERIAL FOR A BROAD RANGE OF INDUSTRIAL APPLICATIONS. PRODUCED THROUGH THE HOT ROLLING OF STEEL BILLETS, WIRE RODS ARE SUPPLIED IN COIL FORM AND SERVE AS THE BASE MATERIAL FOR MANUFACTURING VARIOUS STEEL WIRE PRODUCTS.**

**WIRE RODS ARE EXTENSIVELY USED IN THE PRODUCTION OF NAILS, WIRE MESH, BINDING WIRE, FENCING WIRE, FASTENERS, SPRINGS, AND NUMEROUS COLD-DRAWN WIRE PRODUCTS. THEIR EXCELLENT FORMABILITY AND CONSISTENT CHEMICAL COMPOSITION MAKE THEM SUITABLE FOR FURTHER PROCESSING SUCH AS DRAWING, BENDING, AND COLD FORMING.**

**BASEKIM SUPPLIES HIGH-QUALITY STEEL WIRE RODS MANUFACTURED ACCORDING TO INTERNATIONAL STANDARDS AND DESIGNED TO ENSURE RELIABLE PERFORMANCE IN DEMANDING INDUSTRIAL APPLICATIONS.**

**OUR WIRE RODS OFFER UNIFORM MECHANICAL PROPERTIES, STABLE CHEMICAL COMPOSITION, AND CONTROLLED PRODUCTION PROCESSES, PROVIDING DEPENDABLE MATERIAL FOR WIRE DRAWING INDUSTRIES, CONSTRUCTION PRODUCTS, AND GENERAL MANUFACTURING SECTORS WORLDWIDE.**



# ABOUT BASEKIM



Basekim is a trusted steel supplier based in Turkey, specializing in high-quality steel products supplied directly from Turkish mills and production facilities.

All Basekim steel products are manufactured in Turkey in accordance with international standards, ensuring consistent quality, reliable mechanical performance, and full compliance with global industry requirements.

With strong sourcing and production capabilities in Turkey, Basekim is able to supply both standard and special steel grades based on customer requirements, delivering flexible solutions for construction, manufacturing, and industrial applications worldwide.

# INTERNATIONAL REBAR STANDARDS & GRADE EQUIVALENCY

ASTM / SAE	Europe EN 16120-2 / EN 10016	Japan JIS G3505	Typical Carbon Level	Typical Application
SAE 1006	C7D	SWRM6	Low Carbon	Drawing wire, mesh, binding wire
SAE 1008	C9D	SWRM8	Low Carbon	Nails, mesh, general wire products
SAE 1010	C10D	SWRM10	Low Carbon	General drawing, industrial wire
SAE 1012	C12D	SWRM12	Low Carbon	Cold forming, general wire products
SAE 1015	C15D	SWRM15	Medium-Low Carbon	Industrial wire, forming applications
SAE 1045	C46D2 family*	SWRH47 / equivalent family*	High Carbon	High-strength wire, spring / mechanical use

## Global Rebar Standards Overview

Region	Standard	Typical Wire Rod Grades
Turkey / Export Mills	ASTM A510M / EN 16120-2	SAE 1006, 1008, 1010, 1012, 1015
Europe	EN 10016 / EN 16120-2	C7D, C9D, C10D, C12D, C15D
Japan	JIS G3505	SWRM6, SWRM8, SWRM10, SWRM12, SWRM15
International Drawing Quality	ISO 16120-2	Low carbon drawing qualities
High Carbon Applications	EN 10016-4 family	CxxD2 grades for special applications

## Mechanical Properties Reference

Grade	Carbon Family	Drawability	Typical Use
SAE 1006	Low Carbon	Excellent	Thin drawing, galvanized wire,
SAE 1008	Low Carbon	Excellent	Nail wire, wire mesh, drawn wire
SAE 1010	Low Carbon	Very Good	General industrial wire
SAE 1015	Medium-Low Carbon	Good	Forming and stronger wire
SAE 1045	High Carbon	Moderate	Mechanical and high-strength

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# SAE 1006 LOW CARBON STEEL WIRE ROD

## 1 - Chemical Analysis

Grade	Standard	C	Si	Mn	P	S
SAE 1006	ASTM A510	0.04-0.08	≤0.15	0.25-0.40	≤0.040	≤0.050

## 2 - Mechanical Properties

Grade	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation (%)	Drawability	Weldability
SAE 1006	180-260	300-420	≥28	Excellent	Good

## 3 - Dimensional & Supply Specifications

Nominal Diameter (mm)	Weight (kg/m)	Coil Weight (MT)	Coil Inner Dia (mm)	Coil Outer Dia (mm)	Surface	Application
5.5	0.187	1.8-2.2	~850	1100-1200	Hot Rolled	Wire Drawing
6.5	0.26	1.8-2.2	~850	1100-1200	Hot Rolled	Mesh / Nail
8	0.395	1.8-2.2	~850	1100-1200	Hot Rolled	Industrial Wire
10	0.617	1.8-2.2	~850	1100-1200	Hot Rolled	Binding Wire
12	0.888	1.8-2.2	~850	1100-1200	Hot Rolled	General Wire



# SAE 1008 LOW CARBON STEEL WIRE ROD

## 1 - Chemical Analysis

Grade	Standard	C	Si	Mn	P	S
SAE 1008	ASTM A510	0.05-0.10	≤0.15	0.30-0.50	≤0.040	≤0.050

## 2 - Mechanical Properties

Grade	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation (%)	Drawability	Weldability
SAE 1008	200-280	330-450	≥26	Excellent	Very Good

## 3 - Dimensional & Supply Specifications

Nominal Diameter (mm)	Weight (kg/m)	Coil Weight (MT)	Coil Inner Dia (mm)	Coil Outer Dia (mm)	Surface	Application
5.5	0.187	1.8-2.2	~850	1100-1200	Hot Rolled	Wire Drawing
6.5	0.26	1.8-2.2	~850	1100-1200	Hot Rolled	Nail Production
8	0.395	1.8-2.2	~850	1100-1200	Hot Rolled	Wire Mesh
10	0.617	1.8-2.2	~850	1100-1200	Hot Rolled	Industrial Wire
12	0.888	1.8-2.2	~850	1100-1200	Hot Rolled	General Wire



# SAE 1010 LOW CARBON STEEL WIRE ROD

## 1 - Chemical Analysis

Grade	Standard	C	Si	Mn	P	S
SAE 1010	ASTM A510	0.08-0.13	≤0.15	0.30-0.60	≤0.040	≤0.050

## 2 - Mechanical Properties

Grade	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation (%)	Drawability	Weldability
SAE 1010	220-300	360-480	≥25	Very Good	Good

## 3 - Dimensional & Supply Specifications

Nominal Diameter (mm)	Weight (kg/m)	Coil Weight (MT)	Coil Inner Dia (mm)	Coil Outer Dia (mm)	Surface	Application
5.5	0.187	1.8-2.2	~850	1100-1200	Hot Rolled	Wire Drawing
6.5	0.26	1.8-2.2	~850	1100-1200	Hot Rolled	Nail Wire
8	0.395	1.8-2.2	~850	1100-1200	Hot Rolled	Wire Mesh
10	0.617	1.8-2.2	~850	1100-1200	Hot Rolled	Industrial Wire
12	0.888	1.8-2.2	~850	1100-1200	Hot Rolled	Construction Wire



# SAE 1018 MEDIUM LOW CARBON STEEL WIRE ROD

## 1 - Chemical Analysis

Grade	Standard	C	Si	Mn	P	S
SAE 1018	ASTM A510	0.15-0.20	≤0.20	0.60-0.90	≤0.040	≤0.050

## 2 - Mechanical Properties

Grade	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation (%)	Drawability	Weldability
SAE 1018	270-350	440-560	≥22	Good	Good

## 3 - Dimensional & Supply Specifications

Nominal Diameter (mm)	Weight (kg/m)	Coil Weight (MT)	Coil Inner Dia (mm)	Coil Outer Dia (mm)	Surface	Application
5.5	0.187	1.8-2.2	~850	1100-1200	Hot Rolled	Cold Forming Wire
6.5	0.26	1.8-2.2	~850	1100-1200	Hot Rolled	Industrial Wire
8	0.395	1.8-2.2	~850	1100-1200	Hot Rolled	Mechanical Wire
10	0.617	1.8-2.2	~850	1100-1200	Hot Rolled	Fastener Wire
12	0.888	1.8-2.2	~850	1100-1200	Hot Rolled	Engineering Applications



# SAE 1022 MEDIUM CARBON STEEL WIRE ROD

## 1 - Chemical Analysis

Grade	Standard	C	Si	Mn	P	S
SAE 1022	ASTM A510	0.19-0.23	≤0.25	0.70-1.00	≤0.040	≤0.050

## 2 - Mechanical Properties

Grade	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation (%)	Drawability	Weldability
SAE 1022	300-380	480-620	≥18	Moderate	Fair

## 3 - Dimensional & Supply Specifications

Nominal Diameter (mm)	Weight (kg/m)	Coil Weight (MT)	Coil Inner Dia (mm)	Coil Outer Dia (mm)	Surface	Application
5.5	0.187	1.8-2.2	~850	1100-1200	Hot Rolled	Cold Heading Wire
6.5	0.26	1.8-2.2	~850	1100-1200	Hot Rolled	Bolt & Screw Wire
8	0.395	1.8-2.2	~850	1100-1200	Hot Rolled	Fastener Production
10	0.617	1.8-2.2	~850	1100-1200	Hot Rolled	Industrial Hardware
12	0.888	1.8-2.2	~850	1100-1200	Hot Rolled	Mechanical Components



# SAE 1045 HIGH CARBON STEEL WIRE ROD

## 1 - Chemical Analysis

Grade	Standard	C	Si	Mn	P	S
SAE 1045	ASTM A510	0.43-0.50	≤0.30	0.60-0.90	≤0.040	≤0.050

## 2 - Mechanical Properties

Grade	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation (%)	Drawability	Weldability
SAE 1045	380-500	600-750	≥14	Moderate	Limited

## 3 - Dimensional & Supply Specifications

Nominal Diameter (mm)	Weight (kg/m)	Coil Weight (MT)	Coil Inner Dia (mm)	Coil Outer Dia (mm)	Surface	Application
5.5	0.187	1.8-2.2	~850	1100-1200	Hot Rolled	Spring Wire
6.5	0.26	1.8-2.2	~850	1100-1200	Hot Rolled	High Strength Wire
8	0.395	1.8-2.2	~850	1100-1200	Hot Rolled	Mechanical Wire
10	0.617	1.8-2.2	~850	1100-1200	Hot Rolled	Industrial Components
12	0.888	1.8-2.2	~850	1100-1200	Hot Rolled	Engineering Applications



# WIRE ROD SIZE & WEIGHT TABLE

Diameter (mm)	Weight (kg/m)	Meter per Ton
5.5	0.187	5,348
6	0.222	4,505
6.5	0.26	3,846
7	0.302	3,311
8	0.395	2,532
9	0.499	2,004
10	0.617	1,621
11	0.746	1,340
12	0.888	1,126
13	1.043	959
14	1.209	827
15	1.387	721
16	1.578	634



# OUR GLOBAL PRESENCE



## ANKARA OFFICE

Sales & coordination office



## DUBAI OFFICE

International trade & client relations



## ISTANBUL OFFICE

Regional trade & logistics hub

# CONTACT US

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