

KYORITSU
METAL
INDUSTRY



*Medical-grade wires
for innovation*



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SUS304

This alloy is the most popular and well-known type of austenitic stainless steel.

It is usually used for non-implant medical devices. SUS304 has high formability and good fatigue resistance.

Applications

Stylets
Catheters
Guidewires
Springs
Needles

Chemical Composition (%)

C	Si	Mn	P	S	Ni	Cr	Mo
~0.08	~1.00	~2.00	~0.045	~0.030	8.00 ~10.50	18.00 ~20.00	

Nearest Equivalent Steel Grades

EN/DIN	AISI/SAE	JIS
1.4301	304	SUS304

SUS316

SUS316 is used for permanent implants for many years. This alloy has higher corrosion resistance than the other 300 series alloys because of increased content of molybdenum.

Applications

Suture Wire
Skin Closure Staples
Catheters
Stylets
Bone Pins
Small Machined Parts

Chemical Composition (%)

C	Si	Mn	P	S	Ni	Cr	Mo
~0.08	~1.00	~2.00	~0.045	~0.030	10.00 ~14.00	16.00 ~18.00	2.00 ~3.00

Nearest Equivalent Steel Grades

EN/DIN	AISI/SAE	JIS
1.4401	316	SUS316

SUS631J1

This alloy was developed to have combined characteristics, namely easy processing like austenitic stainless steel, along with high strength like martensitic stainless steel. SUS631J1 has good formability and good form stability during the precipitation hardening heat treatment and a moderate level of corrosion resistance.

Applications

Stylets
Catheters
Guidewires
Springs
Needles

Chemical Composition (%)

C	Si	Mn	P	S	Ni	Cr	Al
~0.09	~1.00	~1.00	~0.040	~0.030	7.00 ~8.50	16.00 ~18.00	0.75 ~1.50

Nearest Equivalent Steel Grades

EN/DIN	AISI/SAE	JIS
1.4568	631	SUS631J1

SUS302

Used mainly for spring applications, SUS302 has similar chemical components to SUS304 with the exception of its higher carbon content. After same amount of cold work, SUS302 becomes harder than SUS304.

Applications

Stylets
Catheters
Guidewires
Springs
Needles

Chemical Composition (%)

C	Si	Mn	P	S	Ni	Cr	Mo
~0.15	~1.00	~2.00	~0.045	~0.030	8.00 ~10.00	17.00 ~19.00	

Nearest Equivalent Steel Grades

EN/DIN	AISI/SAE	JIS
1.4310	302	SUS302

SPEC



RECTANGULAR [FLAT]
0.10×0.20~0.20×0.40mm



ELLIPSE
0.20×0.40~0.30×0.50mm



ROUND
0.01~0.50mm

Our materials are manufactured by NIPPON STEEL group.
ISO 9001 certified.

