

Stainless steel

In [metallurgy](#), stainless steel, also known as inox steel or inox from French "inoxydable", is defined as a [steel alloy](#) with a minimum of 10.5 or 11% [chromium](#) content by mass.

Stainless steel does not stain, [corrode](#), or [rust](#) as easily as ordinary steel, but it is not stain-proof. It is also called corrosion-resistant steel or CRES when the alloy type and grade are not detailed, particularly in the aviation industry. There are different grades and surface finishes of stainless steel to suit the environment the alloy must endure. Stainless steel is used where both the properties of steel and resistance to corrosion are required.

Bebon international as a professional stainless steel exporter in china, service thousands of clients from around the world. We keep more than 5000 tons stainless steel in various kinds of stainless steel grads and different surface type.

The surface type we can offer are : 2B,NO.1, BA, NO.4, HL

Stainless steel grade we offer are : 201 202 304 301 321 316 316L 430 403 in ASTM, SUS, JIS, AISI standard.

The service of Bebon steel is not only on stainless steel plate, we also have much advantage on stainless steel sheet, stainless steel tube/pipe, stainless steel strip and stainless steel coil.

Stainless Steel 200 Series		
Grade	Chemical Composition of stainless steel 200	Mechanical Properties

Bebon steel — The most professional exporter on weathering resistant steel

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	C	Si	Mn	P	S	Ni	Cr	N	Cu	Y.S	T.S.	ELOG.	HRB
	%	%	%	%	%	%	%	%	%	N/mm2	N/mm2	%	
201 (1% Ni)	≤ 0.15	≤ 1.00	8~11	≤ 0.060	≤ 0.030	0.9~1.5	15~17	≤ 0.25	1.5~2	≥ 310	≥ 655	≥ 35	≤ 105
202 (4% Ni)	≤ 0.15	≤ 1.00	6~9	≤ 0.060	≤ 0.030	3.5~5	15~17	≤ 0.25	1.5~2	≥ 260	≥ 620	≥ 40	≤ 100

<u>Stainless Steel</u> 300 Series													
Grade	<u>Chemical Composition stainless steel 300</u>									Mechanical Properties			
	C	Si	Mn	P	S	Ni	Cr	Mo		Y.S	T.S.	ELOG.	HRB
	%	%	%	%	%	%	%	%		N/mm2	N/mm2	%	
304	≤ 0.08	≤ 0.75	≤ 2	≤ 0.045	≤ 0.03	8~10	18~20			≥ 205	≥ 520	≥ 40	≤ 90
301	≤ 0.15	≤ 1.00	≤ 2	≤ 0.045	≤ 0.03	6~8	16~18			≥ 205	≥ 515	≥ 40	≤ 95
321	≤ 0.08	≤ 1.00	≤ 2	≤ 0.045	≤ 0.03	9~13	17~20			≥ 205	≥ 515	≥ 40	≤ 90
316	≤	≤	≤ 2	≤	≤	10~14	16~18	2~3		≥ 205	≥ 515	≥ 40	≤ 90

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	0.08	1.00		0.045	0.03								
316L	≤ 0.03	≤ 1.00	≤ 2	≤ 0.045	≤ 0.03	12~15	16~18	2~3		≥ 170	≥ 480	≥ 40	≤ 95
The specification of type 301, 304, 316, 316L according with ASTM and JIS standard.													

<u>Stainless Steel</u> 400 Series													
Grade	<u>Chemical Composition stainless steel 400</u>									Mechanical Properties			
	C	Si	Mn	P	S	Ni	Cr	N	Cu	Y.S	T.S.	ELOG.	HRB
	%	%	%	%	%	%	%	%	%	N/mm2	N/mm2	%	
430	≤ 0.12	≤ 1.00	≤ 1	≤ 0.040	≤ 0.030		16~18			≥ 450	≥ 205	≥ 22	≤ 88
The specification of type 430 according with ASTM and JIS standard.													

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