



General Characteristics:

JSL J4-16Cr Grade is a chromium-manganese austenitic stainless steel with moderate amounts of copper, nickel and nitrogen. Balancing of the alloying elements produces an austenitic structure in the annealed condition.

This grade is similar to J4 with higher Cr for increased corrosion resistance.

Chemical Composition:

		%С	%Mn	%S	%P	%Si	%Ni	%Cr	%Си	%N
J4-16Cr	Min	-	9.00	-	-	-	1.0	16.0	1.50	0.10
	Мах	0.10	10.50	0.010	0.08	0.75	2.0	17.0	2.00	0.25

Mechanical Properties:

Mechanical properties	UTS(MPa)	YS(MPa)	%EL	Hardness(HRB)
J4-16Cr	650 min	325 min	40 min	100 max

Products available:

Hot Rolled Plates & Coil, Cold Rolled Coil & Sheets

Applications:

Wet Sliding mixing tanks, Furniture, Cookware & Serving Bowls,, structural frames for trailers, buses and rail cars, Window Channel Spacers, Deep drawn kitchen equipment.

Formability:

Grade	Limit Drawing Ratio (LDR)	Erichsen Cupping Value
304	2.1	13.1 mm
J4-16Cr	1.7	11.5 mm

Corrosion Resistance:

IGC testing as per ASTM A 262

Test as per ASTM A262	Corrosion R	ate (mmpy)		
	Boiling Fei	rric Sulfate		
Practico P	50% Sulp	huric Acid		
Fractice B	Type J4-16Cr	Туре 304		
	D	В		
	65% Nitric A	Acid, Boiling		
Practice C	Type J4-16Cr	Туре 304		
	С	В		
	Copper/16% Copper Sulf	ate/Sulfuric Acid, Boiling		
Practice E	Type J4-16Cr	Туре 304		
	No cracks	No cracks		
	Oxalic Acid	d etch Test		
Practice A	Type J4-16Cr	Туре 304		
	Step Structure	Step Structure		



General Characteristics:

J4

J4 Grade is a chromium-manganese austenitic stainless steel with moderate amounts of copper, nickel and nitrogen. Balancing of the alloying elements produces an austenitic structure in the annealed condition.

Type J4 is suitable for replacing chromium-nickel grades 301, 304 in many applications. Lower cost manganese and nitrogen additions render this grade more economical while endowing it with good strength and high formability making it highly suitable for a wide variety of consumer and structural applications. Presence of copper in this steel reduces work hardening rate. The alloy is non-magnetic in annealed condition and like 304 becomes lightly magnetic after cold working due to formation of martensite. Thus J4 can display a wide range of mechanical strength depending on the degree of cold working, which is essential for certain structural applications.

Chemical Composition:

		%С	%Mn	%S	%P	%Si	%Ni	%Cr	%Си	%N
14	Min	-	8.50	-	-	-	1.0	15.0	1.50	-
<u> </u>	Мах	0.10	10.00	0.010	0.08	0.75	2.0	16.0	2.00	0.20

Mechanical Properties:

Mechanical properties	UTS(MPa)	YS(MPa)	%EL	Hardness(HRB)	
J4	650 min	325 min	40 min	100 max	

Products available:

Hot Rolled Plates & Coil, Cold Rolled Coil & Sheets

Applications:

Deep drawn kitchen equipment, Furniture, Bins, Coal Bucket, Wear Plate Liners and Hoppers, Cookware & Serving Bowls, Window Channel Spacers etc.

Formability:



Grade	Limit Drawing Ratio (LDR)	Erichsen Cupping Value
304	2.1	13.1 mm
J4	1.7	11.5 mm





General Characteristics:

J201 type steels are lean nickel alloy austenitic stainless steel designed as a cost-effective solution for 301 grades in various applications.

Designation		%С	%Mn	%S	%P	%Si	%Ni	%Cr	%Cu	%N
S20100	Min	-	5.50	-	-	-	3.5	16.0	-	-
(J201)	Max	0.15	7.50	0.030	0.060	1.00	5.5	18.0	-	0.25
S20103	Min	-	5.50	-	-	-	3.5	16.0	-	-
(J201L)	Max	0.030	7.50	0.030	0.045	0.75	5.5	18.0	-	0.25
S20153 (J201LN)	Min	-	6.40	-	-	-	4.0	16.0	-	0.10
	Max	0.030	7.50	0.015	0.045	0.75	5.0	17.5	1.0	0.25

Chemical Composition:

Mechanical Properties:

Grade		Mechanical properties	YS (MPa)	UTS (MPa)	%EL	Hardness
520100	S20100 J201	201-1* ASTM A240	260	515	40	95
S20100		201-2* ASTM A240	310	655	40	100
S20103	J201L	ASTM A240	260	655	40	95
S20153	J201LN	ASTM A240	310	655	45	100

*201-1 and 201-2 represent the rich and lean types of 201 respectively

Mechanical Properties of different tempers in 201LN:

J201LN can be provided in different tempers. The feasibility is subject to customer requirements.

Products available:

Hot Rolled & Cold Rolled coils and sheets

Applications:

• J201

Structural members, siding and roofing for railway cars and trailers and a variety of severely formed parts.

• J201L

Low temperature components, heavy section services, Pots, Pans, Flatware, Counters, Counters, Sinks, Appliance components, Dishwashers, Ovens, Refrigerators, Hinges, Doors, Frames, Roll formed sections, Spring clips

• J201LN

Welded constructions, structural uses and low temperature applications - Examples include sides & roofs of trains, liquefied gas storage vessels, structural members/chassis of railway rolling stock, trucks & trailers, coal handling equipment.

Corrosion Resistance:

J201 grades have comparable corrosion resistance to 301 grades.





General Characteristics:

J202 is manganese alloyed austenitic stainless steel which is designed as a cost-effective solution to 302 grade with similar corrosion and mechanical properties.

Chemical Composition:

UNS		%С	%Mn	%S	% P	%Si	%Ni	%Cr	%N
520200	Min	-	7.50	-	-	-	4.0	17.0	-
320200	Max	0.15	10.00	0.030	0.060	1.00	6.0	19.0	0.25

Mechanical Properties:

Mechanical properties	UTS (MPa)	YS (MPa)	%EL	Hardness (BHN)	
ASTM A240	620 min	260 min	40 min	241 max	

Products available:

Hot Rolled Plates & Coil, Cold Rolled Coil & Sheets

Applications:

Antennas, Refrigerator trays, Wire mesh, Cookware & Sinks, Hose Clamps, Frames, Industrial Strapping, Railway Rolling Stock, Furniture, Bins

Corrosion Resistance:

J202 grade is comparable to 304 grades in moderately corrosive media.

J204 DIN 1.4376



AUSTENITIC STAINLESS STEEL

General Characteristics:

J204 is a chrome-manganese stainless steel belonging to 200 series of austenite stainless steel family with moderate amounts of nickel and nitrogen.

J204 is a new alloy that bridges the cost / property gap between 200 and 300 series stainless steel. Manganese as austenite former replaces a part of nickel and has beneficial effect on weldability. Consequently J204 has a higher annealed strength, similar corrosion resistance in a variety of mild corrosive media and similar formability & weldability in comparison with 304. It can replace Type 304 in numerous applications where higher strength, high formability and lower cost are required.

Chemical Composition Range: J204

	%С	%Mn	%S	%P	%Si	%Ni	%Cr	%Си	%N
Min	-	5.00	-	-	-	2.0	17.0	-	-
Мах	0.10	8.00	0.015	0.045	1.00	4.5	20.5	0.25	0.30

Mechanical Properties:

Machanical proportion	UTS (MPa)	YS (MPa)	%EL	Hardness(HRB)
Mechanical properties	700 min	350 min	40 min	100 max

Products available:

Hot Rolled Plates & Coil, Cold Rolled Coil & Sheets

Applications:

Cookware & Sinks, Hose Clamps, Trailer, Frames, Industrial Strapping, Railway Rolling Stock.

Drawability:



Cylinder Drawing Limit Ratio

Corrosion Resistance:

Test Media taken for the tests are various mixtures of acids & salts.

Test Media	Corrosion rate (mmpy)			
	304	J204		
3% NaCl for 720 hrs at RT	A	A		
(3%NaCl+0.5%Acetic + 0.5%Lactic) for 720 hrs at RT	A	A		
(3%NaCl+0.5%Citric + 0.5%Tartaric) for 720 hrs at RT	A	A		
(0.5%Citric +0.5%Tartaric) for 720 hrs at RT	A	A		
3% NaCl for 100 hrs at Boiling Temp.	A	A		
(3%NaCl+0.5%Acetic +0.5%Lactic) for 100 hrs at Boiling Temp.	A	A		
(3%NaCl+0.5%Citric +0.5%Tartaric) for 100 hrs at Boiling Temp.	A	A		
(0.5%Acetic +0.5%Lactic) for 120 hrs at Boiling Temp	A	A		
(5%Lactic) for 120 hrs at Boiling Temp.	Α	A		
(5% citric) for 120 hrs at Boiling Temp	A	Α		
(5% acetic) for 120 hrs at Boiling Temp	Α	Α		

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J204 Cu



AUSTENITIC STAINLESS STEEL

General Characteristics:

J204Cu is a chrome-manganese stainless steel belonging to 200 series of austenite stainless steel family with moderate amounts of nickel, copper and nitrogen. J204Cu is a new alloy that bridges the cost / property gap between 200 and 300 series stainless steel. It has better formability than J201 and 304 due to Cu addition which lowered the work hardening rate to provide cold working properties superior to 200 series stainless steel and similar to type 304. Copper improves corrosion resistance and stress corrosion cracking resistance in certain media. Nitrogen increases strength and pitting resistance of stainless steel. Manganese as austenite former replaces a part of nickel and has beneficial effect on weldability. Consequently J204Cu has a higher annealed strength, similar corrosion resistance in a variety of mild corrosive media and similar formability & weldability in comparison with 304. It can replace Type 304 in numerous applications where higher strength, high formability and lower cost are required.

Chemical Composition:

		%С	%Mn	%S	%P	%Si	%Ni	%Cr	%Си	%N
12040	Min	-	6.50	-	-	-	1.5	16.0	2.00	0.10
J204CU	Max	0.10	9.00	0.010	0.06	0.75	3.5	17.5	4.00	0.25

Mechanical Properties:

As per	UTS	YS	%EL	Hardness
Product	(MPa)	(MPa)		(HRB)
Standard	620 min	310 min	40 min	100 max

Products available:

Hot Rolled Plates & Coil, Cold Rolled Coil & Sheets

Applications:

As an effective cost alternative to type 201/304, J204Cu finds a wide range of applications. The major areas are:

1.Catering and food process: Deep drawn kitchenware, utensils, cookware, industrial kitchen equipment, flasks, milk cans, Ice and water dispensers, water filters, domestic and commercial refrigerator outer body parts

2. Consumer durables: Sinks, Toasters, microwave ovens outer body parts, Baking ovens, Thermo wares, washing machines outer body parts, mobile case /parts

3. Architecture, Building and construction: Handrails for staircase, elevators, escalators, internal panels, Door window frames, thermal window spacers

4. Transport (Automotive): Automotive hose clamps, safety belt anchors, truck and bus frames

Corrosion Resistance:

Study of Leaching of iron, Chromium, Nickel and Copper in different food products when cooked in stainless steel coupons/cookware .Results are tabulated for eight food simulants and actual food media for Fe, Cr, Ni and Cu. The value of leached elements obtained through Atomic absorption spectrometry after keeping coupons of size 50mmx70mm and cookware 100mm diameter(made by deep drawn process) in 150 ml of simulant for boiling ~30 minutes. The solution was concentrated on water bath for removal of water content in simulant solution /food. The concentrate was subsequently made into ash by digesting in electrically heated muffle furnace .Ash solutions were prepared for each simulant by dissolving the respective ashes in 2% Nitric acid solution. The ashed solution was then used for Atomic absorption spectrometry.

				Test cou	oons			Test cook	ware	
Food items	Grade	рН	Cu	Fe	Ni	Cr	Cu	Fe	Ni	Cr
3% Acetic acid	J204Cu	2.59	<0.1	0.1929	<0.1	<0.1	<0.1	0.1748	<0.1	<0.1
	304	2.59	<0.1	0.2104	<0.1	<0.1	<0.1	0.1764	<0.1	<0.1
3% Citric acid	J204Cu	2.82	<0.1	0.2565	<0.1	<0.1	<0.1	0.2675	<0.1	<0.1
	304	2.82	<0.1	0.3048	<0.1	<0.1	<0.1	0.2968	<0.1	<0.1
3% Lactic acid	J204Cu	2.80	0.11	1.1010	<0.1	<0.1	0.2337	1.194	<0.1	<0.1
	304	2.80	0.2092	1.5789	<0.1	<0.1	0.2296	0.9914	<0.1	<0.1
1% Tartaric acid	J204Cu	2.27	<0.1	0.7630	<0.1	<0.1	<0.2590	1.2754	<0.1	<0.1
	304	2.27	<0.1	0.8020	<0.1	<0.1	0.2396	1.0592	<0.1	<0.1
10% Ethanol	J204Cu	5.82	<0.1	0.5616	<0.1	<0.1	<0.1	0.7726	<0.1	<0.1
	304	5.82	<0.1	0.5002	<0.1	<0.1	<0.1	0.6780	<0.1	<0.1
Distilled water	J204Cu	6.8	<0.1	0.2891	<0.1	<0.1	<0.1	0.8743	<0.1	<0.1
	304	6.8	<0.1	0.8042	<0.1	<0.1	<0.1	0.2940	<0.1	<0.1
4%Common salt	J204Cu	6.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	304	6.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Refined sunflower oil	J204Cu	1.6	<0.1	<0.1	<0.1	<0.1	<0.1	0.11	<0.1	<0.1
	304	1.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tomato soup	J204Cu	3.6	<0.1	0.8697	<0.1	<0.1	<0.1	1.597	<0.1	<0.1
	304	3.6	<0.1	0.6219	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

*All values are in ppm (1 ppm=1 mg/Kg or µg/ml)

Conclusion:

The leaching values of Chromium and Nickel are very low in all cases <0.1 ppm It was observed that there was no surface corrosion spot/rust marks in the tested coupons/cookware and no measurable weight loss when compared before and after the experiment.

IGC test:

J204Cu and type 304 are immune from intergranular corrosion if properly heat treated. Intergranular attack test were performed as per ASTM A 262 on J204Cu and 304 grade samples.

		Corrosion rate (mmpy)					
Alloy	Treatment	Dractico P	Dractico (Practice E			
		FIULILE D	Fractice C	After sensitization			
J204Cu	Annealed at 1050ºC	3.8015	0.7419	Not cracked			
Туре 304	Annealed at 1050ºC	1.3479	0.6010	Not cracked			

Drawabilitiy and formability



J204Cu can readily be cold rolled, cold drawn and formed in similar manner as Type 304. J204Cu can take upto 80% cold reduction without intermediate annealing. Effect of cold work on Martensite formation: J204Cu will undergo magnetic transformation due to cold reduction. This magnetism is the result of forming deformation martensite with cold work. This martensite increases the strength, work hardening rate and abrasion resistance of alloy.

The amount of martensite forming on cold working in J204Cu is much less than in type 304.

%Cold work	19	28	45	57	67
% Martensite	0.31	0.6	1.1	1.6	3.0

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General Characteristics:

J216L is a Chrome-Nickel-Molybdenum austenitic stainless steel with manganese, nitrogen and copper, which offers a number of advantages over conventional 316L stainless steel. The corrosion resistance of this stainless steel is comparable to type 316L. This alloy has nearly 50% higher strength in annealed condition, higher elevated temperature strength coupled with better fatigue resistance. It can be cold rolled to significantly higher tensile strength while retaining a very low magnetic permeability.

A part of nickel & molybdenum of 316L is replaced by a combination of copper, manganese and nitrogen in this grade to retain austenitic structure and similar corrosion resistance. Synergy between molybdenum and nitrogen enhances the beneficial effect of molybdenum on corrosion resistance of the alloy. Simultaneous addition of molybdenum and copper improves corrosion resistance in sulphuric acid. Addition of nitrogen improves the resistance to pitting, crevice and intergranular resistance.

Such a combination of properties makes J216L highly suited for numerous applications in chemical, petrochemical, pulp, paper, oil & gas industries which currently use 316L.

	%С	%Mn	%S	%P	%Si	%Ni	%Cr	%Cu	%Mo	%N
Min	-	6.00	-	-	-	6.0	16.0	1.50	1.50	0.15
Мах	0.030	8.00	0.015	0.060	0.75	8.0	18.0	2.00	2.00	0.25

Chemical Composition:

Mechanical Properties:

YS (MPa)	UTS (MPa)	%EL	Hardness
≥ 310	≥ 520	≥ 40	≤100

Products available:

Hot Rolled Plates & Coil, Cold Rolled Coil & Sheets

Applications:

J216L is a cost-effective substitute for 316L in major applications.

Typical applications are architectural trims, marine exteriors, chemical processing equipment, food processing equipment, petroleum refining equipment, pharmaceuticals equipment, photographic equipment, pulp & paper processing equipment and textile finishing equipment.

Corrosion Resistance:

Boiling test results for this grade shows excellent corrosion resistance when compared with 316L.

Medium	Grade	Corr. Rate (mmpy)	Classification
E0/ Citric Acid	J216L	0.00234	Outstanding
570 Chi le Aciu	316L	0.00605	Outstanding
F0/ Tortoria Asid	J216L	0.00623	Outstanding
	316L	0.01160	Outstanding
5% Acotic Acid	J216L	0.00312	Outstanding
5% Acetic Aciu	316L	0.00410	Outstanding
100% Acotic Acid	J216L	0.00805	Outstanding
100% Acetic Acid	316L	0.00555	Outstanding
20/2 HCl	J216L	0.00867	Outstanding
2 70 HCI	316L	0.02059	Outstanding
65% HNO-	J216L	0.00632	Outstanding
05% N NO ₃	316L	0.01277	Outstanding
25% Orthophosphoric Acid	J216L	0.00512	Outstanding
	316L	0.00849	Outstanding



> PREN = Pitting Resistance Equivalent Number
PREN = %Cr + 3.3 Mo + 16N

> MARC= Measure of Alloying for Resistance to Corrosion MARC = %Cr + 3.3 Mo + 20C + 20N - 0.5Mn - 0.25Ni

Grade	MARC	PREN
J216L	21.57	25.018
316L	21.08	23.533

Potentiodynamic Test Results in 3.5% NaCl at 23 °C

Grade	OCP (V)	I _{Corr} (μΑ)	Corr. Rate (mpy)	Ι _{Crit} (μΑ)	E _{pit} (mV)
J216L	-0.180	1.003	0.921	2.317	335
316L	-0.180	1.009	0.927	2.408	372



Fabrication:

Since J216L and 316L have comparable work hardening rate and sufficiently high ductility, the fabrication techniques are essentially similar. However on account of its higher strength, J216L requires more power to shear & form. The drilling speeds have to be lower compared to 316L for comparable tool life.

Weldability:

The alloy possesses good weldability like stainless steels of 300 series. Gas tungsten-arc and gas metal-arc techniques have been used for such grade. It can be welded to other stainless steels with conventional welding electrodes currently used. 316L electrodes have been used to weld this alloy.

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JSL AUS



AUSTENITIC STAINLESS STEEL

General Characteristics:

JSL AUS is a chromium-manganese nickel austenitic stainless steel. Modest amount of nitrogen added to these steel results in higher annealed strength than AISI 304. However copper addition reduces work hardening rate to facilitate cold working /forming. The alloy is non-magnetic in annealed condition and like AISI 304 becomes mildly magnetic after cold working. Cold forming characteristics are superior to AISI 201 and 202 and the chemistry is so optimized as to achieve drawability similar to grade 304.

JSL AUS has been used for many applications where type AISI 304 was traditionally chosen. JSL AUS is relatively economical compared to AISI 304 having formability and weldability comparable to AISI 304 with corrosion resistance superior to AISI 430. Type JSL AUS is used both in fully annealed and in partially or fully cold rolled condition.

The mechanical properties vary considerably depending upon the amount of cold work introduced. The strength of JSL AUS is slightly higher than conventional austenitic steel such as 304. Considering its lower cost JSL AUS can replace conventional AISI 304 in a wide range of application.

Chemical Composition:

	%С	%Mn	%S	%P	%Si	%Ni	%Cr	%Си	%N
Min	-	6.00	-	-	-	4.0	16.0	1.5	-
Мах	0.080	8.00	0.010	0.07	0.75	6.0	18.0	2.0	0.10

Mechanical Properties:

Machanical properties	UTS (MPa)	YS (MPa)	%EL	Hardness	
Mechanical properties	550 min	205 min	40 min	95 HRB max	

Products available:

Hot Rolled Plates & Coil, Cold Rolled Coil & Sheets

Applications:

Deep-drawing utensils, ordnance components, water filters, storage, and milk cans, water tank, food industry, Automotive trim, Wheel caps, Wiper arms, Rims, Auto accessories.

Drawability:



JSL AUS is very tough and ductile and readily amenable to deep drawing, bending, stretch forming and spinning. After heavy cold working, it is only mildly magnetic like 304.

Study of Leaching of iron, Chromium , Nickel and Copper in different food products when cooked in stainless steel coupons/cookware. Results are tabulated for eight food simulants and 3 actual food media for Fe, Cr, Ni and Cu.

	рН	Cu	Fe	Ni	Cr				
Simulated food items									
3% Acetic acid	2.59	<0.1	0.1136	<0.1	<0.1				
3% Citric acid	2.82	<0.1	0.2390	<0.1	<0.1				
3% Lactic acid	2.8	<0.1	0.888	<0.1	<0.1				
1% Tartaric acid	2.27	<0.1	0.8008	<0.1	<0.1				
10% Ethanol	5.82	<0.1	0.8130	<0.1	<0.1				
Distilled water	6.8	<0.1	0.1990	<0.1	<0.1				

4%Common salt	6.1	<0.1	<0.1	<0.1	<0.1			
Refined sunflower oil	1.6	<0.1	<0.1	<0.1	<0.1			
Actual Food Items								
Tomato soup	3.6	<0.1	0.3522	<0.1	<0.1			

*All values are in ppm (1 ppm=1 mg/Kg or μg/ml)

It was observed that there was no surface corrosion spot/rust marks in the tested coupons/cookware and no measurable weight loss when compared before and after the experiment.

Conclusion: - The values of leaching in the tests conducted are within the limit for JSL AUS grade of stainless steel and will behave similar to type 304 during normal cooking.

JSL U DD



AUSTENITIC STAINLESS STEEL

General Characteristics:

JSL U DD is a Chromium-Manganese austenitic stainless steel with moderate amounts of copper and nitrogen and low amounts of Nickel. Balancing of the alloying elements produces a fully austenitic structure in annealed condition.

The presence of nickel and copper in this steel reduces work hardening rate and improves ductility and drawability. Lower cost manganese and nitrogen additions render this grade more economical while endowing it with good strength and high formability making it highly suitable for various consumer and structural applications.

Chemical Composition:

	%С	%Mn	%S	%P	%Si	%Ni	%Cr	%Си	%N
Min	-	9.75	-	-	-	0.50	14.75	1.75	-
Мах	0.15	11.00	0.015	0.10	0.75	0.80	16.25	2.50	0.20

Mechanical Properties:

Mechanical properties (Product standard Range)	UTS (MPa)	YS (MPa)	%EL	Hardness(HRB)	
JSL U DD	700	350	40	100	

Products available:

Hot Rolled Plates & Coil, Cold Rolled Coil & Sheets.

Applications:

JSLU DD: Medium and Deep drawn utensils. Drawn and spun utensils. Suitable for Deep Drawn Utensils upto 10 inch deep.

Corrosion Resistance:

The corrosion behavior of Cr-Mn grade JSL U DD was comparable with AISI 304 stainless steels in a variety of mild and moderate chemical environments.

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