

300 series stainless steel

Alloy (AISI Equivalent)	chemical composition									
	C %	Mn %	Si %	p ≤ %	S ≤ %	Ni %	Cr %	Mo %	Cu %	Other %
CF-20(302)	0.20	1.50	2.00	0.04	0.04	8.0-11.0	18.0-21.0	-	-	
CF-8(304)	0.08	1.50	2.00	0.04	0.04	8.0-11.0	18.0-21.0	-	-	
CF-3(304L)	0.03	1.50	2.00	0.04	0.04	8.0-12.0	17.0-21.0	-	-	
CH-20(309)	0.20	1.50	2.00	0.04	0.04	12.0-15.0	22.0-26.0	-	-	
CK-20(310)	0.20	2.00	2.00	0.04	0.04	19.0-22.0	23.0-27.0	-	-	
CF-8M(316)	0.08	1.50	2.00	0.04	0.04	9.0-12.0	18.0-21.0	2.0-3.0	-	
CF-3M(316L)	0.03	1.50	1.50	0.04	0.04	9.0-13.0	17.0-21.0	2.0-3.0	-	
IC 316F (316F)	0.08	1.50	2.00	0.04	0.04	9.0-12.0	18.0-21.0	2.0-3.0	-	.20-.35Se or .20-.40S
CN-7M	0.07	1.50	1.50	0.04	0.04	27.5-30.5	19.0-22.0	2.0-3.0	3.0-4.0	
HK	0.20-0.60	2.00	2.00	0.04	0.04	18.0-22.0	24.0-28.0	0.50	-	

*CF-8C is recommended in lieu of IC-321 for castability

Alloy	Properties of austenitic, stainless steel						
	Heat treatment Condition	Tensile strength		0.2% yield strength		%Elongation range	Hardness Rb max
		English(psia)	Metric(Mpa)	English(psia)	Metric(Mpa)		
CF-20	Annealed	65-75000	448-517	30-35000	207-241	35-60	90
CF-3, CF-8	Annealed	70-85000	483-586	40-50000	276-345	35-50	90
CH-20	Annealed	70-80000	483-552	30-40000	207-276	30-45	90
CK-20	Annealed	60-75000	414-517	30-40000	207-276	35-45	90
CF-8M, CF-3M	Annealed	70-85000	483-586	40-50000	276-345	35-50	90
IC 316F	Annealed	65-75000	418-517	30-35000	207-241	35-45	90
CF-16F	Annealed	70-85000	483-586	32-36000	221-248	30-40	90
CF-8C	Annealed	65-75000	418-517	25-35000	172-241	35-45	90
CN-7M	Annealed	65-75000	418-517	30-40000	207-276	35-45	90
IC 321	Annealed	65-75000	418-517	30-40000	207-276	35-45	90
HK	Annealed	65-75000	418-517	35-45000	241-310	10-20	90