



Casting Material: Stainless Steel CF8C (SS347)

CF8C (SS347) is one Austenitic stainless steel grade in standard of ASTM A351 and ASTM A743/A743M. It can give good corrosion resistance properties with good strength and wear resistance.

Casting Methods in Casting Quality Industrial:

- Sand Casting
- Investment Casting

Similar Stainless Steel Grade: www.castingquality.com

ASTM/UNS 347/S34700,

EN 10095, DIN 1.4552, G-X5CrNiNb18-9

BS 347C17

China ZG0Cr18Ni9Ti

JIS SCS21



ASTM A351 Standard Specification for Castings, Austenitic, for Pressure-Containing Parts:

ASTM 743A Standard Specification for Castings, Iron-Chromium, Iron-Chromium-Nickel, Corrosion Resistant, for General Application

ASTM A744 Standard Specification for Castings, Iron-Chromium-Nickel, Corrosion Resistant, for Severe Service

ASTM A182 Standard Specification for Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Service

ASTM A213 Standard Specification for Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes

ASTM A240 Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications

ASTM A249 Standard Specification for Welded Austenitic Steel Boiler, Superheater, Heat-Exchanger, and Condenser Tubes

ASTM A269 Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service



ASTM A270 Standard Specification for Seamless and Welded Austenitic and Ferritic/Austenitic Stainless Steel Sanitary Tubing

ASTM A312 Standard Specification for Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes

ASTM A403 Standard Specification for Wrought Austenitic Stainless Steel Piping Fittings

ASTM A554 Standard Specification for Welded Stainless Steel Mechanical Tubing

ASTM A789 Standard Specification for Seamless and Welded Ferritic/Austenitic Stainless Steel Tubing for General Service

ASTM A790 Standard Specification for Seamless and Welded Ferritic/Austenitic Stainless Steel Pipe

Stainless Steel Grade			CF8C (SS347) Physical Properties							
Standard	Grade	UNS	Carbon	Manganese	Silicon	Sulfur	Phosphorus	Chromium	Nickel	Mo
ASTM A743	CF8C	J92710	0.08	1.50	2.00	0.04	0.04	18.0-21.0	9.0-12.0	-
ASTM A351	CF8C	J92710	0.08	1.50	2.00	0.04	0.04	18.0-21.0	9.0-12.0	0.5
ASTM A744	CF8C	J92710	0.08	1.50	2.00	0.04	0.04	18.0-21.0	9.0-12.0	-
ASTM A276	SS347	S34700	0.08	2.00	1.00	0.045	0.03	17.0-19.0	9.0-12.0	Cb 10 XC- 1.1 0
ASTM A182	F347	S34700	0.08	2.00	1.00	0.045	0.03	17.0-20.0	9.0-13.0	
	F347H	S34709	0.04-0.10	2.00	1.00	0.045	0.03	17.0-20.0	9.0-13.0	
ASTM A240	347	S34700	0.08	2.00	0.75	0.045	0.03	17.0-19.0	9.0-13.0	
	347H	S34709	0.04-0.10	2.00	0.75	0.045	0.03	17.0-19.0	9.0-13.0	

CF8C (SS347) Heat treatment process: WWW.CASTINGQUALITY.COM



Heat to 1900°F [1043°C] minimum, hold for sufficient time to heat casting to temperature, quench in water or rapid cool by other means.

CF8C (SS347) Stainless Steel Mechanical Property

Stainless Steel Grade			Tensile Strength min		Yield Strength, min		Elongation, min	Reduction of Area	Hardness, Max	
Standard	Grade	UNS	Ksi	MPa	Ksi	MPa	%	min, %	Brinell	Rockwell B
ASTM A743	CF8C	J92710	70	485	30	205	30	-	-	-
ASTM A351	CF8C	J92710	70	485	30	205	30	-	-	-
ASTM A744	CF8C	J92710	70	485	30	205	30	-	-	-
ASTM A276	347	S34700	75	515	30	205	40	50	Hot Finished, all	
			90	620	45	310	30	40	Cold Finished, <=1/2"	
			75	515	30	205	30	40	Cold Finished, >1/2"	
ASTM A240	347	S34700	75	515	30	205	40.0	-	201	92
	347H	S34709	75	515	30	205	40.0	-	201	95
ASTM A182	F347	S34700	75	515	30	205	30	50	-	-
	F347H	S34709	75	515	30	205	30	50	-	-

CF8C (SS347) CASTING APPLICATION: WWW.CASTINGQUALITY.COM

CF8C (SS347) is used for fluidized bed combustors, kilns, radiant tubes, tube hangers for petroleum refining and steam boilers, coal gasified internal components, lead pots, refractory anchor bolts, burners and combustion chambers, retorts, muffles, annealing covers, food processing equipment, cryogenic structures.

SERVICE IN QINGDAO CASTING QUALITY INDUSTRIAL

- SAND CASTING
- INVESTMENT CASTING
- SHELL CASTING
- PERMANENT MOLD CASTING
- CNC MACHINING
- CAD/CAM DESIGN