

SEMI F20 UHP Grade Compliant 316L Stainless Steel

1.Chemical Composition

		C	Si	Mn	P	S	Cu	Ni	Cr	Mo	Al	Ti	Nb	Ca	Se
JIS SUS316L Specification	Min	—	—	—	—	—		12.00	16.00	2.00					
	Max	0.030	1.00	2.00	0.045	0.030		15.00	18.00	3.00					
SEMI F20 HP,UHP Grade	Min	—	—	—	—	—	—	10.00	16.00	2.00	—	—	—	—	—
	Max	0.030	1.00	1.5	0.045	0.010	0.30	14.00	18.00	3.00	0.01	0.02	0.05	0.02	0.02

2.Cleanliness

ASTM E45 Method A		Type A		Type B		Type C		Type D	
		T	H	T	H	T	H	T	H
SEMI F20 UHP Grade	Specification	≤ 1.5	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0

3.Mechanical Properties

Mechanical Properties		0.2%Yield Strength MPa	Tensile Strength Mpa	Elongation %	Reduction of Area %
Mechanical Properties ASTM A276	Specification After ST	≥ 170	≥ 480	≥ 40	≥ 50

4.Grain size

Grain size		diameter: 3inch or less
ASTM E112	Specification After ST	≥ 5

5.Intergranular Corrosion Test

Intergranular Corrosion Test		After sensitization treatment (1250°F x 1H)
ASTM A262 Method E	Specification After ST	No grain boundary cracking