



COMMON USED GB MATERIAL PROPERTIES

COMMON USED GB MATERIAL COMPOSITION AND MECHANICAL PROPERTIES

Stainless Steel & Duplex			CHEMICAL COMPOSITION													MECHANICAL PROPERTIES						
			C %	Mn %	P %	S %	Si %	Ni %	Cr %	Mo %	Cu %	Ti %	Nb %	W %	B %	N %	Tensile Strength MPa	Yield Strength MPa	Elongation %	Reduction of Area %	Hardness of Area HB	Impact Temp. (J) (tr)
F304	ASTM A182	MIN%						8.00	18.00								515	205	30	50		
		MAX%	0.060	2.00	0.045	0.030	1.00	11.00	20.00							0.10						
F304L	ASTM A182	MIN%						8.00	18.00								485	170	30	50		
		MAX%	0.030	2.00	0.045	0.030	1.00	13.00	20.00							0.10						
F304/304L	ASTM A182	MIN%						8.00	18.00								515	205	30	50		
		MAX%	0.030	2.00	0.045	0.030	1.00	11.00	20.00							0.10						
F304H	ASTM A182	MIN%	0.040					8.00	18.00								515	205	30	50		
		MAX%	0.100	2.00	0.045	0.030	1.00	11.00	20.00													
F309H	ASTM A182	MIN%	0.040					12.00	22.00								515	205	30	50		
		MAX%	0.100	2.00	0.045	0.030	1.00	15.00	24.00													
F310	ASTM A182	MIN%						19.00	24.00								515	205	30	50		
		MAX%	0.250	2.00	0.045	0.030	1.00	22.00	26.00													
F310H	ASTM A182	MIN%	0.400					19.00	24.00								515	205	30	50		
		MAX%	0.100	2.00	0.045	0.030	1.00	22.00	26.00													
F316	ASTM A182	MIN%						10.00	16.00	2.00							515	205	30	50		
		MAX%	0.080	2.00	0.045	0.030	1.00	14.00	18.00	3.00						0.10						
F316L	ASTM A182	MIN%						10.00	16.00	2.00							485	170	30	50		
		MAX%	0.030	2.00	0.045	0.030	1.00	15.00	18.00	3.00						0.10						
F316/316L	ASTM A182	MIN%						10.00	16.00	2.00							515	205	30	50		
		MAX%	0.030	2.00	0.045	0.030	1.00	14.00	18.00	3.00						0.10						
F316H	ASTM A182	MIN%	0.040					10.00	16.00	2.00							515	205	30	50		
		MAX%	0.100	2.00	0.045	0.030	1.00	14.00	18.00	3.00												
F316Ti	ASTM A182	MIN%						10.00	16.00	2.00		5°C%					515	205	30	40		
		MAX%	0.080	2.00	0.045	0.030	1.00	14.00	18.00	3.00	0.70											
F317L	ASTM A182	MIN%						10.00	18.00	3.00							485	170	30	50		
		MAX%	0.030	2.00	0.045	0.030	1.00	15.00	20.00	4.00												
F321	ASTM A182	MIN%						9.00	17.00			5°C%					515	205	30	50		
		MAX%	0.080	2.00	0.045	0.030	1.00	12.00	19.00			0.70										
F321H	ASTM A182	MIN%	0.040					9.00	17.00			4°C%					515	205	30	50		
		MAX%	0.100	2.00	0.045	0.030	1.00	12.00	19.00			0.70										
F347	ASTM A182	MIN%						9.00	17.00				10°C%				515	205	30	50		
		MAX%	0.080	2.00	0.045	0.030	1.00	13.00	20.00			1.10										
F347H	ASTM A182	MIN%	0.040					9.00	17.00				8°C%				515	205	30	50		
		MAX%	0.100	2.00	0.045	0.030	1.00	13.00	20.00			1.10										
F904L	ASTM A182	MIN%						23.00	19.00	4.00	1.00						490	215	35			
		MAX%	0.020	2.00	0.040	0.030	1.00	28.00	23.00	5.00	2.00					0.10						
F44(S31254)	ASTM A182	MIN%						17.50	19.50	6.00	0.50					0.18	650	300	35	50		
		MAX%	0.020	1.00	0.030	0.010	0.80	18.50	20.50	6.50	1.00					0.22						
F51S31803)	ASTM A182	MIN%						4.50	21.00	2.50						0.08	620	450	25	45		
		MAX%	0.030	2.00	0.030	0.020	1.00	6.50	23.00	3.50						0.20						
F53(S32750)	ASTM A182	MIN%						6.00	24.00	3.00						0.24	800	550	15			
		MAX%	0.030	1.20	0.035	0.020	0.80	8.00	26.00	5.00	0.50					0.32					310	
F55(S32760)	ASTM A182	MIN%						6.00	24.00	3.00	0.50	Cr+3.3Mo+16N<=40	0.50			0.20	750	550	25	45		
		MAX%	0.030	1.00	0.030	0.010	1.00	8.00	26.00	4.00	1.00		1.00			0.30	895					
F60(S32205)	ASTM A182	MIN%						4.50	22.00	3.00						0.14	655	485	25	45		
		MAX%	0.030	2.00	0.030	0.020	1.00	6.50	23.00	3.50						0.20						
EN1.4301	DIN EN 10222-5	MIN%						8.00	17.00								500	200	45		100	60
		MAX%	0.070	2.00	0.045	0.015	1.00	10.5	19.50							0.11	700					