

Materials specifications for butt - welding fittings ASTM materials

Marking Symbol	JIS Code Number & Materials	Chemical Composition (Percent)					
		C	S	Mn	P	S	Ni
SGP	G3452, SGP	-	-	a234	0.050 Max.	0.050 Max.	-
PG371	G3454, STPG370	0.25 Max.	0.35 Max.	0.30-0.90	0.040 Max.	0.040 Max.	-
PG410	G3454, STPG410	0.30 Max.	0.35 Max.	0.30-1.00	0.040 Max.	0.040 Max.	-
PT370	G3456, STPT370	0.25 Max.	0.10-0.35	0.30-0.90	0.035 Max.	0.035 Max.	-
PT410	G3456, STPT410	0.30 Max.	0.10-0.35	0.30-1.00	0.035 Max.	0.035 Max.	-
PT480	G3456, STPT480	0.33 Max.	0.10-0.35	0.30-1.00	0.035 Max.	0.035 Max.	-
STS370	G3455, STS370	0.25 Max.	0.10-0.35	0.30-1.10	0.035 Max.	0.035 Max.	-
STS410	G3455, STS410	0.30 Max.	0.10-0.35	0.30-1.40	0.035 Max.	0.035 Max.	-
STS480	G3455, STS480	0.33 Max.	0.10-0.35	0.30-1.50	0.035 Max.	0.035 Max.	-
PY400	G3457, STPY400	-	-	-	0.050 Max.	0.050 Max.	-
SUS304	G3459, SUS304TP	0.08 Max.	1.00 Max.	2.00 Max.	0.040 Max.	0.030 Max.	8.00-11.00
SUS304H	G3459, SUS304HTP	0.04-0.10	0.75 Max.	2.00 Max.	0.040 Max.	0.030 Max.	8.00-11.00
SUS304L	G3459, SUS304LTP	0.03 Max.	1.00 Max.	2.00 Max.	0.040 Max.	0.030 Max.	9.00-13.00
SUS316	G3459, SUS316TP	0.08 Max.	1.00 Max.	2.00 Max.	0.040 Max.	0.030 Max.	10.00-14.00
SUS316H	G3459, SUS316HTP	0.04-0.10	0.75 Max.	2.00 Max.	0.030 Max.	0.030 Max.	11.00-14.00
SUS316L	G3459, SUS316LTP	0.03 Max.	1.00 Max.	2.00 Max.	0.040 Max.	0.030 Max.	12.00-16.00
PL380	G3460, STPL380	0.25 Max.	0.35 Max.	1.35 Max.	0.035 Max.	0.035 Max.	-
PL450	G3460, STPL450	0.18 Max.	0.10-0.35	0.30-0.60	0.030 Max.	0.030 Max.	30.00-3.80
SS400	G3101, SS400	-	-	-	0.050 Max.	0.050 Max.	-
SM400B	G3106, SM400B	0.20 Max.	0.35 Max.	0.60-1.20	0.040 Max.	0.040 Max.	-
SM490B	G3106, SM490B	0.18 Max.	0.55 Max.	1.50 Max.	0.040 Max.	0.040 Max.	-
SB410	G3103, SB410	0.24 Max.	0.15-0.30	0.90 Max.	0.035 Max.	0.040 Max.	-
SB450	G3103, SB450	0.28 Max.	0.15-0.30	0.90 Max.	0.035 Max.	0.040 Max.	-
S20C	G4051, S20C	0.18-0.23	0.15-0.35	0.30-0.60	0.030 Max.	0.035 Max.	-
S25C	G4051, S25C	0.22-0.28	0.15-0.35	0.30-0.60	0.030 Max.	0.035 Max.	-
S45C	G4051, S45C	0.42-0.48	0.15-0.30	0.60-0.90	0.030 Max.	0.035 Max.	-
SF45	G3201, SF45	0.60 Max.	0.15-0.50	0.30-1.20	0.030 Max.	0.035 Max.	-
SF50	G3201, SF50	0.60 Max.	0.15-0.50	0.30-1.20	0.030 Max.	0.035 Max.	-

