

# MATERIALS EQUIVALENCE AND COMPARISON



## MATERIALS EQUIVALENCE

ASTM	EN 10213	EN No.	UNS	JIS	TRADE MARK
A48-40B	EN-GJL-250	0.6025			
	EN-GJS-400-18	0.7043			
A216 WCB	GP240GH	1.0619	J03002	SCPH2	
A352 LCB	G20Mn5	1.6220	J03003	SCPL1	
A352 LC2					
A352 LC3	G9Ni14	1.5638	J31550	SCPL31	
A217 WC1	G20Mo5	1.5419	J12524	SCPH11	
A217 WC6	G17CrMo5-5	1.7357	J12072	SCPH21	
A217 WC9	GS12CrMo9-10	1.7379	J21890	SCPH32-CF	
A217 C5	GX15CrMo5	1.7365 (1.7363)	J42045	SCPH61	
A217 C12	(GX12CrMo10-1)	(1.7389)	J82090		
A351 CF3	X2CrNi19-11	1.4306	J92500	SCS19	
A351 CF3M	X2CrNiMo17-12-2	1.4409	J92800	SCS16	
A351 CF8	GX5CrNiMo19-10	1.4308	J92600	SCS13	
A351 CF8C	GX5CrNiNb19-11	1.4552	J92710		
A351 CF8M	GX5CrNiMo19-11-2	1.4408	J92900	SCS14	
A351 CF8MC	GX5CrNiMoNb19-11-2	1.4581			
A351 CG8M					
	GX2CrNiMoN22-5-3	1.4470			
A351 CK3MCuN					
A351 CN7M			N08007	SCS23	
A494 N-12MV			N10001		HASTELLOY B ®
A494 CW-12MW			N10002		HASTELLOY C ®
A494 M35-1			N04400		MONEL 400 ®
A494 CW-6MC			N06625		INCONEL 625 ®
			N08825		INCOLOY 825 ®
			S31803		SAF 2205 ®
			S31254		254 SMO ®
			S32550		FERRALIUM 255 ®

## MATERIALS COMPARISON

CASTINGS			FORGINGS		
ASTM	EN 10213	EN No.	ASTM	EN 10213	EN No.
A216 WCB	GP240GH (GS-C 25N)	1.0619	A105	(C22.8)	1.0460
A352 LCB	G20Mn5	1.6220	A352 LF2		1.0437
A352 LC2					
A352 LC3	G9Ni14	1.5638	A352 LF3		1.5637
A217 WC1	G20Mo5	1.5419	A182 F1		1.5415
A217 WC6	G17CrMo5-5	1.7357	A182 F11	14CrMo4-5	1.7335
A217 WC9	GS12CrMo9-10	1.7379	A182 F22		1.7380
A217 C5	GX15CrMo5	1.7365 (1.7363)	A182 F5		1.7362
A217 CA15			A182 F6	(X20Cr13)	1.4021
A217 C12	(GX12CrMo10-1)	(1.7389)	A182 F9	(15CrMo12.1)	1.4920
A351 CF3	X2CrNi19-11	1.4306	A182 F304L	X2CrNi19-11	1.4306
A351 CF3M	X2CrNiMo17-12-2	1.4409	A182 F316L	X2CrNiMo17-12-2	1.4404
A351 CF8	GX5CrNiMo19-10	1.4308	A182 F304	X5CrNi18-10	1.4301
A351 CF8C	GX5CrNiNb19-11	1.4552	A182 F321	X6CrNiTi18-10	1.4541
A351 CF8C	GX5CrNiNb19-11	1.4552	A182 F347	X6CrNiNb18-10	1.4550
A351 CF8M	GX5CrNiMo19-11-2	1.4408	A182 F316	X5CrNiMo17-12-2	1.4401
A351 CF8MC	GX5CrNiMoNb19-11-2	1.4581	A182 F348	X6CrNiMoNb17-12-2	1.4580
A351 CG8M			A182 F317		
A351 CK3MCuN			A182 F44		
A351 CN7M			A182 F20		

### BOLTS - ASME MATERIALS

BOLTS		NUTS	
B7	ASTM A193 B7	2H	ASTM A194 Gr.2H
B16	ASTM A193 B16	Gr.4	ASTM A194 Gr.4
L7	ASTM A320 L7	Gr.4	ASTM A194 Gr.4
B8M	ASTM A193 B8M	Gr.8M	ASTM A193 Gr.8M
B8	ASTM A193 B8 CL. 1	Gr.8 A	ASTM A194 Gr.8A
320 B8	ASTM A320 B8 CL.1	Gr.8 A	ASTM A194 Gr.8A
307 B	ASTM A307 Gr.B		
B8	ASTM A193 B8 CL. 1	2H	ASTM A194 Gr.2H

### BOLTS - DIN MATERIALS

MATERIALS			BOLTS		NUTS	
Y	C35	1.0501	C35		C35	
YK	CK35	1.1181	CK35		C35	
G	24CrMo5	1.7258	24CrMo5		CK35	
GA	21CrMoV57	1.7709	21CrMoV57		24CrMo5	
	A2-70		A2-70		A2-70	
	A4-70		A4-70		A4-70	