

A Quick Guide to Suitable Welding Consumables

■ For Boiler

SMAW

Grade (Type of steel)	DCEP		AC	
	AWS Class.	Product name	AWS Class.	Product name
P1/T1 (0.5Mo)	E7016-A1	CM-A76 CM-B76	E7016-A1	CM-A76 CM-B76
P2/T2	E8016-B1	CM-B86	-	-
P11/T11 (1.25Cr-0.5Mo)	E7015-B2L	CM-B95	-	-
	E8016-B2	CM-A96 CM-A96MBD	E8016-B2	CM-A96 CM-A96MB
	E8018-B2	CM-B98	E8018-B2	CM-B98
P22/T22 (2.25Cr-Mo)	E8015-B3L	CM-B105	-	-
	E9015-B3	CM-A105D CM-B105D	-	-
	E9016-B3	CM-A106ND	E9016-B3	CM-A106N
	E9018-B3	CM-B108	E9018-B3	CM-B108
P23/T23	E9016-G	CM-2CW	E9016-G	CM-2CW
P91/T91 (9Cr)	-	CM-95B9	-	-
	-	CM-96B9	-	CM-96B9
	E9016-G	CM-9Cb	E9016-G	CM-9Cb
P92/T92 P122/T122	E9016-G	CR-12S	E9016-G	CR-12S

■ For Boiler

SAW

Grade (Type of steel)	DCEP		AC	
	AWS Class.	Product name	AWS Class.	Product name
P1/T1 (0.5Mo)	-	-	F8P6-EA3-A3 (F9A6)	MF-38/US-40
			F8P6-EA4-A4 (F8A4)	MF-38/US-A4
			F8P6-EG-A4 (F8A4)	MF-38/US-49
P11/T11 (1.25Cr-0.5Mo)	F7PZ-EB2-B2	G-80/US-B2	F7PZ-EB2-B2	G-80/US-B2
	F7PZ-EG-B2	MF-29A/US-511	F7PZ-EG-B2	MF-29A/US-511
	F8P2-EG-B2	PF-200D/US-511ND	F8P2-EG-B2	PF-200/US-511N
P23/T23	-	MF-29A/US-2CW	-	-
P91/T91 (9Cr)	F9PZ-EB9-B9	PF-90B9/US-90B9	F10PZ-EG-G	PF-200S/US-9Cb
P92/T92 P122/T122	-	PF-200S/US-12CRSD	-	-

GMAW and GTAW

Grade (Type of steel)	AWS Class.	Product name	
		GMAW	GTAW
P1/T1 (0.5Mo)	ER70S-A1	MG-S70SA1	TG-S70SA1
	ER80S-G	MG-SM	TG-SM
P2/T2	ER80S-G	MG-CM	-
	-	-	TG-SCM
P11/T11 (1.25Cr-0.5Mo)	ER80S-B2	MG-S80B2F *	TG-S80B2
	ER80S-G	MG-S1CM	TG-S1CM
P22/T22 (2.25Cr-1Mo)	ER90S-B3	-	TG-S90B3
	ER90S-G	MG-S2CM MG-S2CMS	TG-S2CM
P23/T23	ER90S-G	MG-S2CW	TG-S2CW (ER80S-G)
P91/T91 (9Cr)	ER90S-B9	MG-S90B9	TG-S90B9
	ER90S-G	MG-S9Cb	TG-S9Cb
P92/T92 P122/T122	ER90S-G	MG-S12CRS	TG-S12CRS

* Single pass only

