

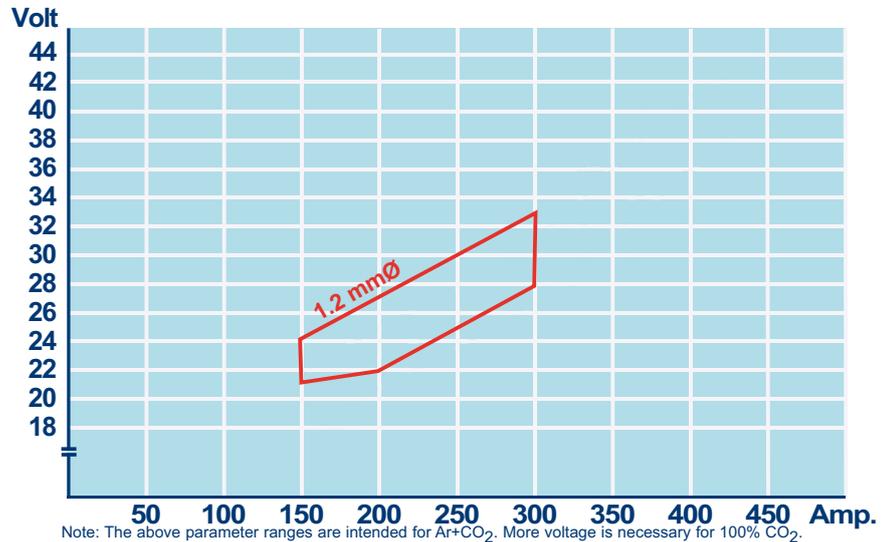
Description and Application

DW-81B2 is a rutile based flux cored wire for welding of 1.25%Cr-0.5%Mo steels, such as ASTM A387 Gr.11&Gr.12.

DW-91B3 is a rutile based flux cored wire for welding of 2.25%Cr-1%Mo steels, such as ASTM A387 Gr.22.

These wires provide many good characteristics, low spatter loss, flat to slightly convex bead configuration, and a moderate volume of slag, which completely covers the weld bead and exhibits self-peeling slag detachability.

Recommended Parameter Range, for flat position



Chemical Analysis (wt.%)

		C	Si	Mn	P	S	Cr	Mo	Shielding gas
DW-81B2	Example	0.05	0.61	0.60	0.008	0.013	1.29	0.51	80%Ar-20%CO ₂
		0.06	0.46	0.46	0.008	0.009	1.23	0.48	100%CO ₂
	Guaranty	0.05-0.12	≤0.80	≤1.25	≤0.030	≤0.030	1.00-1.50	0.40-0.65	
DW-91B3	Example	0.06	0.43	0.82	0.008	0.010	2.25	0.97	80%Ar-20%CO ₂
		0.06	0.35	0.70	0.010	0.009	2.16	0.97	100%CO ₂
	Guaranty	0.05-0.12	≤0.80	≤1.25	≤0.030	≤0.030	2.00-2.50	0.90-1.20	

Mechanical Properties

		R _e (N/mm ²)	R _m (N/mm ²)	A ₅ (%)	PWHT	Shielding gas
DW-81B2	Example	591	670	24	690°C x 1 hr	80%Ar-20CO ₂
		549	633	25	690°C x 1 hr	100%CO ₂
	Guaranty	≥470	550-690	≥19	690±15°C x 1 hr	
DW-91B3	Example	645	728	22	690°C x 1 hr	80%Ar-20CO ₂
		602	690	20	690°C x 1 hr	100%CO ₂
	Guaranty	≥540	620-760	≥17	690±15°C x 1 hr	

Welding Positions

DW-81B2

1.2mm



DW-91B3

1.2mm



Approvals

	LR	DNV	BV	GL	ABS	R.M.R.S.	Others
DW-81B2	E81T1-B2	-	-	-	-	-	-
DW-91B3	-	-	-	-	-	-	-