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## Certificate for Welding Consumable DW-81B2/CO2

Project: Supplementary List of Certified Welding Consumables

Client:	Kobe Steel, Ltd. Office: Ibaraki Plant	Yokohama
Clients Order Number:	- Date:	05 October 2023
	Order Status:	Completed
Inspection Dates First:	06 July 2023 Final:	26 September 2023

This certificate is issued to the above Client to certify that the undersigned Surveyor to this Society did at their request attend their Ibaraki Plant and Fujisawa Plant on and between the dates shown above for the purpose of examining and testing below noted welding consumable.

Trade Name:	DW-81B2/CO2
Welding Process:	Flux-cored Wire/Gas Shield
Welding Position:	DXVuO
Joint Type:	BF
Specification:	DW-81B2/CO2 [M – Manufacturer's specification]

A weld metal assembly was prepared using the welding consumable of lot number AX3131, and specimens machined from the assembly according to the specification were tested using calibrated measuring and testing equipment in the presence of the undersigned with results satisfying the requirements of the specification as follows.

			Mechanical Prop	erties of Dep	osit Metal		
	Dia. [mm]	Re [N/mm <sup>2</sup> ]	Rm [N/mm²]	A [%]	CVN Impact [J]	Test Temp.	Stress Relief
Spec.	1.2	≥ 470	550-690	≥ 19	-	-	690°Cx1hr
Obtained	1.2	524	603	22	-	-	690°Cx1hr

			Chemical A	Analysis of De	eposit Metal	[WI%]			
	с	Si	Mn	Р	S	Ni	Cr	Мо	Cu
Spec.	0.05-0.12	0.80 max	1.25 max	0.030 max	0.030 max	-	1.00-1.50	0.40-0.65	-
Obtained	0.05	0.25	0.88	0.008	0.006	-	1.24	0.48	-

The works of the manufacturer was inspected and found in satisfactory order. The process of manufacture, including supervision, quality control and record keeping were of adequate standard and storage condition and facilities were found to be satisfactory as well.

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