



Certificate for Welding Consumable DW-317L/CO2

Project: **Supplementary List of Certified Welding Consumables**

Client: **Kobe Steel, Ltd.
Fujisawa Plant**

Office: **Yokohama**

Clients Order Number: -

Date: **08 January 2020**

Order Status: **Completed**

Inspection Dates

First: **02 October 2019**

Final: **04 December 2019**

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

Trade Name: **DW-317L/CO2**
Welding Process: Flux-cored Wire/Gas Shield (FCAW)
Welding Position: DXVu
Joint Type: BF
Specification: DW-317L/CO2 [M – Manufacturer's specification]

A weld metal assembly was prepared using the welding consumable of lot number F9E2075, 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 Properties of Deposit Metal

	Dia. [mm]	Rp0.2/1.0 [N/mm ²]	Rm [N/mm ²]	A [%]	CVN Impact [J]	Test Temp.
Spec.	1.2 to 1.6	- / ≥ 350	≥ 530	≥ 30	-	-
Obtained	1.2	454 / 476	578	38	52/49/49, Av.50	0°C

Chemical Analysis of Deposit Metal [WT %]

	C	Si	Mn	P	S	Ni	Cr	Mo	Cu
Spec.	0.04 max	1.0 max	0.5-2.5	0.040 max	0.030 max	12.0-14.0	18.0-21.0	3.0-4.0	-
Obtained	0.02	0.5	1.0	0.019	0.004	13.1	18.9	3.3	0.029

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.

S. Kato
Surveyor to Lloyd's Register Group Limited



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