



Certificate for Welding Consumable MG-1CM/CO2

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

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

Office: **Yokohama**

Clients Order Number: -

Date: **03 October 2024**

Order Status: **Completed**

Inspection Dates

First: **18 June 2024**

Final: **30 August 2024**

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

Trade Name: **MG-1CM/CO2**
Welding Process: Solid Wire/Gas Shield (GMAW)
Welding Position: DXVuO
Joint Type: BF
Specification: MG-1CM/CO2 [M – Manufacturer's specification]

A weld metal assembly was prepared using the welding consumable of lot number GZ30287, 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]	Re [N/mm ²]	Rm [N/mm ²]	A [%]	CVN Impact [J]	Test Temp.	Stress Relief
Spec.	1.2 to 1.6	≥ 450	≥ 550	≥ 15	-	-	620°C x 1hr
Obtained	1.2	711	817	23	-	-	620°C x 1hr

Chemical Analysis of Deposit Metal [WT %]

	C	Si	Mn	P	S	Ni	Cr	Mo	Cu
Spec.	0.15 max	0.90 max	1.90 max	0.030 max	0.030 max	-	1.00-1.60	0.40-0.65	-
Obtained	0.09	0.52	1.08	0.008	0.005	-	1.40	0.54	-

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.



M. Wakamori
Surveyor to Lloyd's Register Group Limited

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