



Certificate for Welding Consumable TG-S1CM/Ar

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

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

Office: **Yokohama**

Clients Order Number: -

Date: **09 October 2025**

Order Status: **Completed**

Inspection Dates

First: **30 June 2025**

Final: **16 September 2025**

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: **TG-S1CM/Ar**
Welding Process: **Solid Wire/Gas Shield (GTAW)**
Welding Position: **DXVuO**
Joint Type: **B**
Specification: **TG-S1CM/Ar [M – Manufacturer's specification]**

A weld metal assembly was prepared using the welding consumable of lot number G4A4682RV, 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.	0.8 to 3.2	≥ 315	≥ 520	≥ 22	-	-	690°C x 1hr
Obtained	3.2	561	659	30	-	-	690°C x 1hr

Chemical Analysis of Deposit Metal [WT %]

	C	Si	Mn	P	S	Ni	Cr	Mo	Cu
Spec.	0.05-0.12	0.70 max	0.60-1.20	0.025 max	0.025 max	-	1.00-1.50	0.40-0.65	-
Obtained	0.09	0.54	0.99	0.004	0.005	-	1.41	0.56	-

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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