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## Certificate for Welding Consumable TG-S2CW/Ar

Project: Supplementary List of Certified Welding Consumables

Client:	Kobe Steel, Ltd. Fukuchiyama Plant	Office:	Yokohama
Clients Order Number:	-	Date:	21 April 2025
		Order Status:	Completed
Inspection Dates First:	15 January 2025	Final:	26 March 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.

TG-S2CW/Ar
Solid Wire/Gas Shield (GTAW)
DXVuO
BF
TG-S2CW/Ar [M – Manufacturer's specification

A weld metal assembly was prepared using the welding consumable of lot number GZ80755, 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.

## Stress Relief Condition 1

			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.	0.8 to 3.2	≥ 530	≥ 620	≥ 16	-	_	715°C x 2hrs
Obtained	2.4	609	702	19	-	-	715°C x 2hrs

			Chemical A	Analysis of De	eposit Metal	[WT %]			
	с	Si	Mn	Р	S	Ni	Cr	Мо	Cu
Spec.	0.15 max	0.60 max	0.10-1.60	0.020 max	0.010 max	-	1.90-2.60	0.05-0.85	-
Obtained	0.05	0.41	0.46	0.004	0.007	-	2.20	0.47	_

## Stress Relief Condition 2

Mechanical Properties of Deposit Metal							
	Dia. [mm]	Re [N/mm <sup>2</sup> ]	Rm [N/mm²]	A [%]	CVN Impact [J]	Test Temp.	Stress Relief
Spec.	0.8 to 3.2	≥ 400	≥ 510	≥ 17	-	-	715°C x 1hr
Obtained	2.4	620	713	19	-	-	715°C x 1hr

			Chemical A	Analysis of De	eposit Metal	[WT %]			
	С	Si	Mn	Р	S	Ni	Cr	Мо	Cu
Spec.	0.15 max	0.60 max	0.10-1.60	0.020 max	0.010 max	-	1.90-2.60	0.05-0.85	-
Obtained	0.05	0.41	0.46	0.004	0.007	-	2.19	0.47	-

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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.

		LX
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