



Certificate for Welding Consumable LB-52U

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

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

Office: **Yokohama**

Clients Order Number: -

Date: **15 March 2020**

Order Status: **Completed**

Inspection Dates

First: **08 November 2019**

Final: **07 February 2020**

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

Trade Name: **LB-52U**
Welding Process: Manual Electrode
Welding Position: DXVuO
Joint Type: BF
Specification: LB-52U [M – Manufacturer's specification]

A weld metal assembly was prepared using the welding consumable of lot number D110, 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.	2.6 to 4.0	≥ 375	490-660	≥ 22	≥ 34	-40 °C	-
Obtained	4.0	550	610	27	18/50/48/50/55/83 Ave.51	-40 °C	-

Chemical Analysis of Deposit Metal [WT %]

	C	Si	Mn	P	S	Ni	Cr	Mo	Cu
Spec.	0.05-0.10	0.30-0.75	0.60-1.25	0.020 max	0.020 max	-	-	-	-
Obtained	0.09	0.59	1.07	0.008	0.002	-	-	-	-

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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