



Welding Consumable : Statement of Fact

Project: **Supplementary list of Certified Welding consumables**

Client: **SENIOR METALS PRIVATE LIMITED**

Office: **Mumbai**

Client's Order Number: **--**

Date: **26 December 2025**

Order Status: **Complete**

Inspection Dates

First: **27 August 2025**

Final: **06 November 2025**

This statement is issued to **Senior Metals Private Limited, Jamnagar plant, India** to certify that the undernoted welding consumable is recommended for entry in the supplementary list of certified welding consumables in accordance with ASME Section II Part C, SFA 5.10, specification of the year 2023. This statement is issued on the basis of satisfactory test results on the test coupons prepared on 27/08/2025 and subsequently tested on 06/11/2025. Welding consumables is manufactured by Senior Metals Private Limited, Jamnagar plant, India.

Description:

Consumable Name : SM 4043/Ar

Size in mm : 1.6, 2.0, 2.4, 3.0, 3.2, 4.0, 5.0 (GTAW) & 0.8, 0.9, 1.0, 1.2, 1.6, 2.0 (GMAW)

AWS Classification : SFA 5.10 / ER 4043

Gas : Argon 99.999% , Current: DC+

Result of the Test :

		1.20 mm
Weld Metal Tension test and soundness Test	Yield Stress (N/mm2) (Not Specified)	145 (N/mm2)
	Tensile Strength (MPa) (165 Mpa)	304 (N/mm2)
	% Elongation (Not Specified)	29%
	Impact tests	Not Required
Chemical Analysis	---	Acceptable
Soundness and Usability Test (Electrode)	---	Acceptable (Radiography)
Bead On Plate Test	---	Not required
Fillet Test	---	Not required

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Chemical Analysis:

	Si %	% Mn	Cu%	% Fe	% Al	% Be	% Sn	Ti %	Zn %	Mg %	Other unspecified Elements (Total)
Range	4.50-6.0 Max	0.50 Max	0.30 Max	0.80 Max	Reminder	0.0003 Max	1.00 Max	0.20 Max	0.10 Max	0.05 Max	0.15 Max
Result	4.756	0.016	0.020	0.098	94.985	0.00010	0.950	0.026	0.014	0.011	0.074

Refer Radiography Report No. 9553/25-26,9519/25-26, 9521/25-26, 9528/25-26, 9536/25-26, 9537/25-26, 9530/25-26, 9538/25-26, 9515/25-26 results found acceptable.

The works of above manufacturer were inspected at the location stated and found in satisfactory order. The process of manufacture, including supervision, quality control and record keeping, was of adequate standard and storage condition and facilities were found to be satisfactory as well.



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LR031.2022

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