



## 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 4047/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 4047

Gas : Argon 99.999% , Current: DC+

### Result of the Test :

|                                            |                                         |                          |
|--------------------------------------------|-----------------------------------------|--------------------------|
|                                            |                                         | 1.20 mm                  |
| Weld Metal Tension test and soundness Test | Yield Stress (N/mm2)<br>(Not Specified) | 121 (N/mm2)              |
|                                            | Tensile Strength (MPa)<br>(170 N/mm2)   | 280 (N/mm2)              |
|                                            | % Elongation<br>(Not Specified)         | 35%                      |
|                                            | Impact tests                            | Not Required             |
| Chemical Analysis                          | ---                                     | Acceptable               |
| Soundness and Usability Test (Electrode)   | ---                                     | Acceptable (Radiography) |
| Bead On Plate Test                         | ---                                     | Not required             |
| Fillet Test                                | ---                                     | Not required             |



Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

**Chemical Analysis:**

|        | Si %          | % Mn     | Cu%      | % Fe     | % Al     | % Mg     | % Be       | Zn %     | Other unspecified Elements (Total) |
|--------|---------------|----------|----------|----------|----------|----------|------------|----------|------------------------------------|
| Range  | 11.0-13.0 Max | 0.15 Max | 0.30 Max | 0.80 Max | Reminder | 0.10 Max | 0.0003 Max | 0.20 Max | 0.15 Max                           |
| Result | 12.981        | 0.009    | 0.030    | 0.136    | 86.747   | 0.006    | 0.00010    | 0.002    | 0.089                              |

Refer Radiography Report No. 9520/25-26,9527/25-26, 9517/25-26, 9529/25-26, 9531/25-26, 9535/25-26, 9516/25-26, 9539/25-26, 9552/25-26 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.




Manish Trivedi  
Mumbai Office  
Lloyd's Register Marine and Offshore India LLP

LR031.2022

Manish Trivedi For Self and Anikatabh Anshu  
Surveyor to LRMarine and Offshore India LLP

a member of the Lloyd's Register group.

