

## **Technical Specification of Vacuum Grade Sterling Silver Brazing Alloy Wire**

### **1. QUALITY ASSURANCE REQUIREMENTS**

- 1.1. The bidder shall declare prospective manufacturer(s) of the offered filler wire. In addition, the bidder must also submit a declaration of the original material manufacturer that they have capability of producing vacuum grade (Grade-1 or Grade - 2 of AWS A5.8) braze filler metal.
- 1.2. The bidder shall have supplied vacuum grade filler metal of the offered make(s) to at least one firm in the last two years. The bidder shall substantiate this claim by providing documentary support such as purchase order/ invoice and material certificate showing either vacuum grade or impurity content. Purchaser reserves the right to communicate with the buyer to ascertain veracity of claims and reject the offer in case of a negative feedback.

### **2. TYPE AND COMPOSITION OF THE BRAZING ALLOY**

The bidder shall fill in offered specification in the rightmost column:

#	Item	Specification	Offered Specification
2.1	Braze filler metal	Sterling Silver	
2.2	Composition by weight (nominal)	Copper 7.5%, Balance - Silver	
2.3	Permissible Impurity Specification	Vacuum Grade-1 / Grade - 2 of AWS A5.8 <sup>1</sup>	

### **3. DIMENSION & WEIGHT OF THE BRAZING ALLOY WIRE**

#	Item	Specification	Offered Specification
3.1	Diameter	1 mm	
3.2	Weight	1.8 kg	

### **4. PACKING AND TRANSPORT TO RRCAT**

The wire shall be properly packed to protect it from physical damage and any possible deterioration in performance due to transport conditions.

### **5. ACCEPTANCE**

- 5.1. The packing of original manufacturer shall not be tampered.
- 5.2. Certification of vacuum grade and chemical composition of the alloy issued by original manufacturer shall be sent along with the supply. Purchaser reserves the right to check the composition and reject the material in case of non-conformance.

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<sup>1</sup> The permissible impurity content (by weight) of vacuum grade-1 and grade-2 are given below:  
Zn < 0.002%, Cd < 0.002%, Pb < 0.002%, P < 0.01%, C < 0.005%; the total of all high vapour pressure elements (such as Li, Zn, Pb, Cb, Ca, Mn, P, S, Mg and Sb) < 0.010%.  
The total of all other impurity elements < 0.01% for Grade 1  
The total of all other impurity elements < 0.05% for Grade 2.