



**WELDING CONSUMABLE PURCHASE INSTRUCTION FOR
STAINLESS STEEL BARE SOLID FILLER ROD ERNiCr-3**

1.0 GENERAL:

1.1 The Rod shall comply with requirements specified in the Latest Edition and Addenda (Applicable on the date of Issue of Purchase Order) of ASME Sec.II.C.SFA-5.14, ERNiCr-3. All tests, acceptance criteria shall be in accordance with this. Additional requirements specified in this document shall also be complied.

1.2 The Rods shall be supplied in sizes and quantities as specified in the Purchase Order.

1.3 The rods are intended for use as filler for radiographic quality butt welded joints in high pressure boiler tubes and pipes.

1.4 Every batch of rods shall be inspected & test certificates countersigned by Inspecting Authority approved by IBR for country of origin (Latest).

2.0 Chemical Composition:

2.1 The chemical composition of the Rods shall conform to ASME SEC.II.C SFA5.14-ERNiCr-3.

3.0 USABILITY AND RADIOGRAPHIC SOUNDNESS:

3.1 The Rod when used as Filler in GTAW with 100 % Argon shielding shall deposit Weld metal that flows freely, uniformly without sputtering or other defects and shall exhibit excellent wetting characteristics. The resultant weld metal shall be smooth and uniform with no visible evidence of cracks/porosity or other defects and shall meet Radiographic Soundness requirements.

4.0 FORM & SIZE:

4.1 The Rods shall be supplied in straight lengths of 1000 mm + 15,-0 mm and as specified in the Purchase Order. The tolerance on diameter shall be as per SFA-5.02.

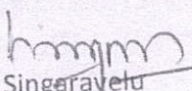
5.0 FINISH & UNIFORMITY:

5.0 The Rods shall have a smooth and glossy finish that is free from slivers, depressions, scratches, scales, seams, laps and foreign matter that would adversely affect the welding characteristics or properties of weld metal.

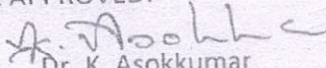
6.0 IDENTIFICATION:

6.1 Each Rod shall have the Classification designation "ERNiCr-3", "NiCr-3", brand/trade designation marked or Embossed on both ends for positive identification.

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REVIEWED & APPROVED:


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7.0 PACKAGING:

7.1 Rods of the same size and batch/lot shall be packed in water resistant plastic tube shaped cartons. Each tube carton shall weigh not more than 10 Kg. The cartons shall be provided with watertight lid to ensure waterproof during transit and storage. Tube Cartons shall be packed in waterproof boxes with crates so as to ensure no damage during shipment and normal storage conditions. Weight of each crate shall not exceed 1000kg. The cartons shall have product information as given below legibly marked so that it is visible outside the package.

- a) ASME Specification & Classification Designation
- b) Brand Name
- c) Size
- d) Batch/Lot No.
- e) Net Weight

7.2 Appropriate precautionary information given in ANSI Z49.1 latest edition (as a minimum) or its equivalent shall be displayed in legible print on all packages.

8.0 TESTING & CERTIFICATION:

8.1 Each consignment of rods supplied shall be from one batch only.

8.2 Batch /Lot classification shall be Class S1 as per SFA-5.01 Filler metal procurement guidelines of ASME Sec.II.C. (Latest Edition and Addenda)

8.3 The Level of Testing shall be Schedule J as per SFA-5.01 Filler metal procurement guidelines of ASME Sec.II.C. (Latest Edition and Addenda)

8.4 Three copies of Original Test certificates in English countersigned by Inspecting Authority (Latest) approved by IBR for country of origin giving details of tests done in compliance with this Purchase Instruction and ASME Sec.II.C, SFA-5.14, ERNiCr-3 shall be sent.

8.5 The Testing Authority shall certify that supplies made against the batch conform to the requirements of the Latest Edition & Addenda (Applicable on the date of issue of Purchase Order) of ASME Sec.II.C.SFA-5.14 ERNiCr-3.

S. No.	Pre –Qualification Criteria for ERNiCr-3	Bidder remark
1	<p>Bidder shall be a manufacturer of the Quoted ERNiCr-3 bare solid filler rod / an authorized dealer of the same.</p> <p>If the offer is quoted by agent, letter of authorization and agreement duly signed by the manufacturer is required to consider the offer.</p>	
2	<p>Bidder (Principle Supplier) shall have successful experience for supplying of ERNiCr-3 bare solid filler rod to any govt. Organizations/ PSUs/ Public Ltd./ Company/ Reputed Industries.</p> <p>Purchase orders copies/ related documents to be submitted along with offer to consider the offer.</p> <p>Note: Successful experience means – supplied and accepted.</p>	
3	<p>Kindly provide the self-declaration for “successfully supplied and accepted by customer” on Principle Supplier letter head regarding document Sl . No. 2.</p> <p>In self-declaration document, kindly provide the following details:</p> <ul style="list-style-type: none"> • PO number • PO date • PO items description • Brand Name • Supplied Quantity • Customer Name • Manufacturer Name 	
4	<p>Quoted Welding Consumables brand name shall be provided along with offer.</p>	
5	<p>Mill address (manufacturing address) shall be provided along with offer.</p>	
6	<p>Mill capacity for GTAW (By Principle Supplier) shall be provided along with offer.</p>	
7	<p>Manufacturer shall submit manufacturing process flow chart (Raw material to finished product) along with offer for GTAW Rod.</p>	
8	<p>Manufacturer (Principle Supplier) shall submit a valid ISO 9001 certificate or Quality management system certificate or Written down procedure.</p>	

S. No.	Pre –Qualification Criteria for ERNiCr-3	Bidder Remark.
9	Shall confirm to Technical Specifications as per as per WCPI – 108 /04.	
10	<p>Vendor should give confirmation to BHEL's Technical Specification. Any deviation from the Specification are to be mentioned in the “Bidder remark Space”.</p> <p>If There is no deviation vendor should indicate “No Deviation”.</p>	
11	Original Certified material test report in English signed by the manufacturer giving details of tests done in compliance with this WCPI – 108/04 and ASME Sec.II.C SFA-5.14 ERNiCr-3 shall be sent along with supply.	
12	The testing authority shall certify that the batch of material supplied is conforming to the requirements of the latest edition and addenda (applicable on the date of issue of purchase order) of ASME Sec.II.C. SFA-5.14 ERNiCr-3	
13	<p>“A copy of valid IBR Approval Certificate for the brand being supplied to be submitted along with supply. It is mandatory that, Manufacturer should possess a valid IBR certificate (for the brand being supplied) during the manufacturing period.</p> <p style="text-align: center;">(OR)</p> <p>“Original test certificates in English countersigned by Inspecting Authority (latest) approved by IBR for country of origin giving details of the tests done in compliance with this purchase instruction (WCPI-108/04) and ASME Sec.II.C, SFA-5.14 ERNiCr-3 shall be sent”.</p>	