

SI No	Pre –Qualification Criteria	Bidder remarks
1	Bidder shall be a manufacturer of Welding Consumables / an authorized dealer of Welding Consumables. * If the offer is quoted by agent , letter of authorization and agreement duly signed by the manufacturer is required to consider the offer	Manufacturer / Agent *
2	If quoted for ER80S-B2,Bidder shall have successfully supplied quoted ER80S-B2 Filler rods to any govt. Organizations/ PSUs/ Public Ltd./Company/Reputed Industries. Purchase orders copies and self-declaration (for Successfully supplied) to be submitted along with offer to consider the offer. Note: Successfully supplied means – supplied and accepted	
3	If quoted for ER90S-B3, Bidder shall have successfully supplied quoted ER90S-B3 Filler rods to any govt. Organizations/ PSUs/ Public Ltd./ Company/Reputed Industries. Purchase orders copies and self-declaration (for Successfully supplied) to be submitted along with offer to consider the offer. Note: Successfully supplied means – supplied and accepted	
4	Quoted Welding Consumables brand name and its catalogue shall be provided along with offer	
5	Manufacturing plant address shall be provided along with offer.	
6	Suppliers shall submit manufacturing process flow chart (Raw material to finished product) along with offer.	
7	Suppliers shall submit a valid ISO 9001 certificate or Quality management system certificate or Written down procedure.	
8	If quoted for ER80S-B2, Shall confirm to WCPI 102/ 08	
9	If quoted for ER90S-B3, Shall confirm to WCPI 103/ 09	



BHARATH HEAVY ELECTRICALS LIMITED
TIRUCHIRAPALLI-620 014
WELDING TECHNOLOGY CENTRE

WCPI – 102
Revision No.08
Date: 01.03.2014

WELDING CONSUMABLE PURCHASE INSTRUCTION FOR
LOW ALLOY STEEL BARE SOLID FILLER ROD ER80S-B2

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-5.28, ER80S-B2. 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 and test certificates countersigned by Inspecting Authority approved by IBR for the country of origin (Latest).

2.0 CHEMICAL COMPOSITION:

The chemical composition of the rods shall conform to ASME SECII.C SFA5.28-ER80S-B2.

3.0 MECHANICAL PROPERTIES:

The mechanical properties of the rods shall conform to ASME SECII.C SFA5.28-ER80S-B2.

4.0 USABILITY AND RADIOGRAPHIC SOUNDNESS:

The rod when used as filler in GTAW with 100 % Argon shielding shall deposit weld metal that flows freely, uniformly without sputter 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.

5.0 FORM, SIZE AND METHOD OF MANUFACTURE:

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. Method of manufacture shall meet clause 15 of SFA 5.28.

Prepared:

Suraj N
Engineer/WTC

Reviewed & Approved:

S. Singaravelu
DGM/WTC



6.0 FINISH AND UNIFORMITY:

The rods shall meet the requirements of clause 17.1, 17.4 of SFA-5.28. The rod shall be furnished with a bright finish and chemically cleaned.

7.0 IDENTIFICATION:

Each rod shall have the classification designation "ER80S-B2", brand/trade designation marked or embossed on both ends for positive identification.

8.0 MARKING:

The rods shall meet the requirements of clause 4.6 of SFA-5.02.

9.0 PACKAGING:

9.1 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 & 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.

9.2 The cartons shall have product information as per clause 4.6 of SFA-5.02

10.0 TESTING & CERTIFICATION:

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

10.2 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)

10.3 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)

10.4 Three copies of certified material test report 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-5.28, ER80S-B2 shall be sent.

10.5 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-5.28 ER80S-B2.



BHARATH HEAVY ELECTRICALS LIMITED
TIRUCHIRAPALLI-620 014
WELDING TECHNOLOGY CENTRE

Doc. Number: WCPI – 103

Revision No.: 09

Date: 01.10.2013

WELDING CONSUMABLE PURCHASE INSTRUCTION FOR
LOW ALLOY STEEL BARE SOLID GTAW FILLER ROD ER90S-B3

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-5.28, ER90S-B3. 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 the country of origin (Latest).

2.0 Chemical Composition:

- 2.1 The chemical composition of the rods shall conform to ASME SECII.C SFA5.28-ER90S-B3.

3.0 Mechanical Properties:

- 3.1 The mechanical properties of the rods shall conform to ASME SECII.C SFA5.28-ER90S-B3.

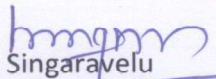
4.0 USABILITY AND RADIOGRAPHIC SOUNDNESS:

- 4.1 The rod when used as filler in GTAW with 100 % Argon shielding shall deposit weld metal that flows freely, uniformly without sputter 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.

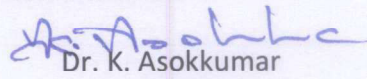
5.0 FORM & SIZE:

- 5.1 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.

PREPARED:


S. Singaravelu
DGM / WTC

REVIEWED & APPROVED:


Dr. K. Asokkumar
AGM/WTC



6.0 FINISH & UNIFORMITY:

6.1 The rods shall meet the requirements of clause 17.1 of SFA-5.28. The rod shall be furnished with a bright finish and chemically cleaned.

7.0 IDENTIFICATION:

7.1 Each rod shall have the classification designation "ER90S-B3", brand/trade designation marked or embossed on both ends for positive identification.

8.0 MARKING:

8.1 The rods shall meet the requirements of clause 4.6 of SFA-5.02.

9.0 PACKAGING:

9.1 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 & 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.

9.2 The cartons shall have product information as per clause 4.6 of SFA-5.02

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10.2 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)

10.3 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)

12.3 Three copies of original test certificates in English countersigned by inspecting authority (latest) approved by IBR of the country of origin giving details of the tests done in compliance with this purchase instruction and ASME SECII.C SFA5.28-ER90S-B3 shall be sent. In addition, test certificate shall contain purchase order number, quantity and customer name.

10.4 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-5.28 ER90S-B3.