

## General Specification

*SS 13 R1 – 416 PSQ*

Material should conform to all requirements of the listed specifications, except as further modified by the more stringent or restrictive requirements listed in this document.

### Tolerances:

1/2" to 1" exclusive	+.000/- .002
1" to 1-1/2" exclusive	+.000/- .0025
1-1/2" to 4" inclusive	+.000/- .003
Over 4" to 5" inclusive	+.000/- .005
Over 5" to 7" inclusive	+.000/- .008

Ovality: 1/2 of diameter tolerance

Straightness: 0.005 Total Indicator Reading (TIR) in 3 feet plus 0.0015 TIR for each foot over 3 feet.

**Marking:** Waive continuous line marking. Each bundle must be tagged with E.S.P. PO#, bundle#, grade, size, heat#, net weight, and country of origin. For 1" and over stamp heat number on both ends of bar.

**Color Code:** Orange (both ends of each bar).

**Length:** 20'2" – 22'2" R/L

### Packing and Shipping Requirements:

Maximum one heat per size per bundle. Maximum bundle weight 10000#. Flat bed trailers only. Material on 4 x 4 runners for quick unloading. All material to be boxed. Each bar must be individually wrapped, tubed or collared to prevent scratches.

**Documents:** 2 copies of MTR with shipments and 2 copies with invoice. Packing list to show country of origin, purchase order number, grade, color code, size, heat number, net weight in pounds.

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DIRECTOR OF PURCHASING

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DATE

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PRODUCT MANAGER, UNALLOY-IWRC

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DATE

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QUALITY ASSURANCE MANAGER

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DATE

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VICE-PRESIDENT OF U.S. OPERATIONS,  
ENERGY STEEL PRODUCTS

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DATE