

4.4 Reports

The producer of the product shall furnish with each shipment a report showing the producer's name and country where the metal was melted (e.g., final melt in the case of metal processed by multiple melting operations) and the results of the following tests:

4.4.1 For each heat:

Composition
Macrostructure

4.4.2 For each lot of product as solution heat treated:

Hardness

4.4.3 For each lot of product after precipitation heat treatment:

Hardness
Tensile properties

4.4.4 A statement that the product is in the solution heat-treated condition and that it conforms to the other technical requirements.

4.4.5 Purchase order number.

Heat and lot numbers
AMS5643W
Product form
Size
Quantity

4.4.6 If the size being shipped is different from the nominal metallurgically-worked cross-sectional size, the size of the larger product and details of how the shipped size was extracted from the larger product shall be reported (also see 3.2.1.4).

4.4.7 When material produced to this specification is beyond the sizes allowed in the scope or tables, or other exceptions are taken to the technical requirements listed in Section 3 (see 5.2.1.1), the report shall contain a statement "This material is certified as AMS5643W(EXC) because of the following exceptions." and the specific exceptions shall be listed.

4.4.8 The producer of stock for forging, flash welded rings, or extrusions shall furnish with each shipment a report showing the producer's name and country where the metal was melted (e.g., final melt in the case of metal processed by multiple melting operations), and the composition and macrostructure of each heat. This report shall include the purchase order number, heat number, AMS5643W, product form, size, and quantity. The producer shall provide a copy of the original material manufacturer's (producer's) report (material certification), including: producer's name and country where the metal was melted (e.g., the final melt in the case of metal processed by multiple melting operations).

4.5 Resampling and Retesting

Shall be as follows:

4.5.1 Bars, Wire, Mechanical Tubing, Flash Welded Rings, and Stock for Forging, Flash Welded Rings, or Heading

In accordance with AMS2371.

4.5.2 Forgings

In accordance with AMS2374.