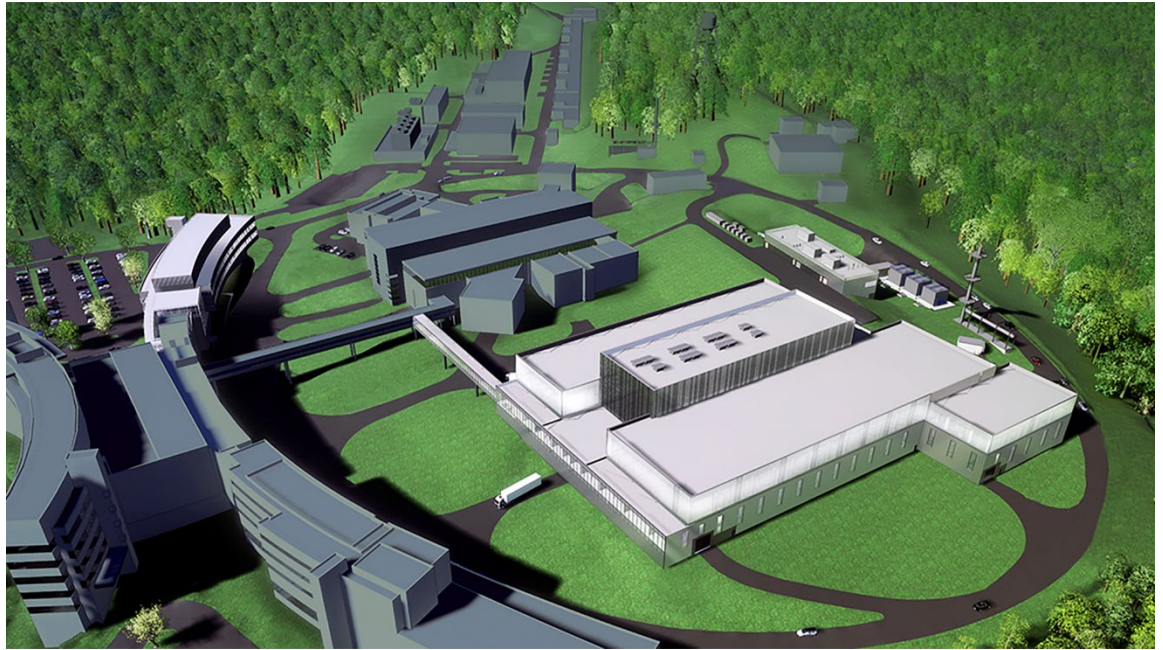


Second Target Station Project: Specification, Inconel, Target Segment



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Second Target Station Project

SPECIFICATION, INCONEL, TARGET SEGMENT

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1. SCOPE

The specification enclosed contains the requirements and verification methods for heat treated Inconel 718 used in the target segment.

2. APPLICABLE SPECIFICATIONS

Material shall meet the most current revision of AMS 5596 (sheet, plate, etc.), or AMS 5562 (bar, forging, etc.), or AMS 5589 (tubing) with the following additional requirements.

3. ADDITIONAL REQUIREMENTS

3.1 COMPOSITION

- Cobalt maximum shall be less than 0.25 wt%, as determined in accordance with ASTM E354 or AMS2283.
- Tantalum maximum shall be less than 0.05 wt%, as determined in accordance with ASTM E354 or AMS2283.

3.2 AVERAGE GRAIN SIZE

Average grain size shall be ASTM No. 6 or finer, as determined in accordance with ASTM E112. Grains may be as large as ASTM No. 5 or finer, as determined in accordance with ASTM E112.

3.3 TENSILE PROPERTIES

Minimum room temperature tensile strength in the solution heat treated condition shall be 930 MPa, as determined in accordance with ASTM E8/E8M.

3.4 MICROSTRUCTURE

Product shall be free of Laves phase. Banding of acicular phase and amount of acicular phase shall conform to standards acceptable to purchaser.
