

## Broder Aerospace

### AMS5656

#### COMMON NAMES:

BS S130D

347 Stainless

UNS S34700

#### FORM & USE:

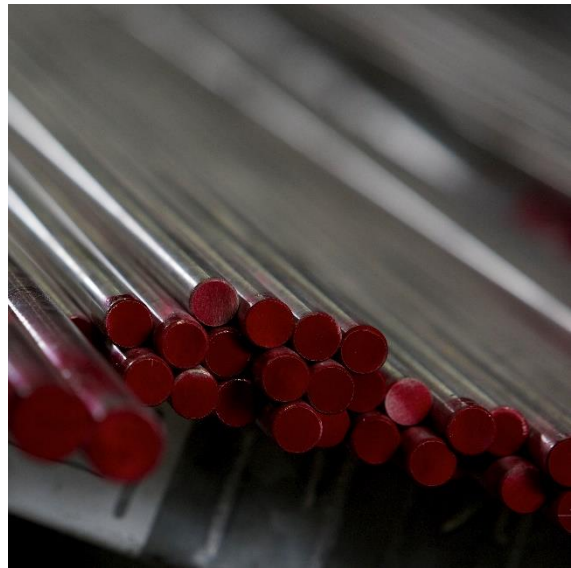
AMS5659 is a heat and corrosion resistant steel. We hold this grade in round bar form. The material is typically used for parts requiring good corrosion resistance which will be subjected to elevated temperatures during fabrication and service. The material is particularly good for parts requiring oxidation resistance up to 816°C. Material is supplied in the solution heat treated condition.

#### SIZES STOCKED:

12.7 mm dia – 139.7 mm dia

#### GENERAL:

Material is premium aircraft-quality conforming to AMS2300.



#### CHEMISTRY:

C	Mn	Si	P	S	Cr	Ni	Nb (Cb)	Co	Mo	Cu
<0.08	<2.00<1.00	<1.00	<0.040	<0.030	17.00 - 19.00	9.00 - 12.00	* - 1.10	<1.00	<0.75	<0.75

\*the minimum amount of Niobium (Columbium) permitted is 10 x the value of Carbon in the material.

#### FINISH:

Material is supplied as heat treated up to 69.8 mm dia, above that as hot finished.

Bars are not cut from plate.

Tolerances are as per AMS2241

#### MATERIAL PROPERTIES:

Tensile Properties:

	Minimum Tensile Strength Ksi	Minimum Yield strength at 0.2% Offset Ksi	Minimum Elongation in 2" or 4d %	Minimum Reduction of Area %	Hardness
Solution Heat Treated up to 50.8 mm dia	75	30	30	40	140-255 HB
Solution Heat Treated above 50.8 mm dia	75	30	30	40	<255 HB

#### Intergranular Attack

Specimens are tested in accordance with ASTM A262 Practice E. Pass and acceptance is as per ASTM A262 Practice E requirements.

Full material traceability, with anti-counterfeit measures, is maintained at all times, and full certification is provided, including producer's name and country where the material was melted.

For a quotation please telephone ++44 (0)114 232 9243, email [sales@broder-aerospace.com](mailto:sales@broder-aerospace.com) or use the quotation page on our website: <http://www.broder-aerospace.com>