

Broder Aerospace

AMS5666

COMMON NAMES:

Alloy 625

UNS N06625



FORM & USE:

AMS5666 is a corrosion and heat resistant nickel alloy. We stock round bar in the annealed condition. The material is typically used in aerospace, oil and gas and general engineering applications which require corrosion and oxidation resistance up to 1093°C. The material can be welded.

SIZES STOCKED:

12.7 mm diameter – 320 mm diameter.

CHEMISTRY:

C	Mn	Si	P	S	Cr	Mo	Nb (Cb)	Co	Ti
<0.10	<0.50	<0.50	<0.015	<0.015	20.00 -	8.00 -	3.15 -	<1.00	<0.40
Al	Fe	Ni							
<0.40	<5.00	Balance							

FINISH:

Material is supplied hot finished, annealed, ground or turned.

Bars are not cut from plate.

GENERAL:

Tolerances conform to applicable requirements of AMS2241.

HEAT TREATMENT:

Annealed suitable to obtain properties.

MATERIAL PROPERTIES:

Tensile Properties: determined in accordance with ASTM A370 on specimens taken in the longitudinal direction from product less than 254 mm in diameter.

	Minimum Tensile Strength Ksi	Minimum Yield strength at 0.2% Offset Ksi	Minimum Elongation in 2" or 4d %	Minimum Reduction of Area %	Hardness
Solution Annealed					

Up to 101.6 mm dia	120	60	30	-	<287 HB
Above 101.6 mm dia	110	50	25	-	<287 HB

A “-“ indicates no requirement for the property.

Grain Size:

up to 177.8 mm diameter – ASTM No. 5 or finer

177.8 mm -254 mm diameter – ASTM No 4 or finer

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 or use the quotation page on our website: <http://www.broder-aerospace.com>