UNITED PERFORMANCE METALS
QUALITY SOLUTIONS. TRUSTED PARTNERS.
AN ONI COMPANY

Waspaloy Bar
AMS 5708 / UNS N07002

Waspaloy® round bar - AMS 5708 (Type 2 is capable of AMS 5709) is a nickel-based alloy containing chromium and cobalt typically used in aircraft fasteners where high strength up to 1500° F and oxidation resistance up to 1750° F is required. Waspaloy® round bar is multiple melted, usually with either a vacuum induction melt (VIM) followed by a vacuum arc remelt (VAR), or a vacuum induction melt (VIM) followed by an electroslag remelt (ESR).

Nominal Composition %

C	Carbon - 0.02 - 0.10
Mn	Manganese - 0.10 max
Si	Silicon - 0.15 max
P	Phosphorous - 0.015 max
S	Sulfur - 0.015 max
Cr	Chromium - 18.00 - 21.00
Co	Cobalt - 12.00 - 15.00
Mo	Molybdenum - 3.50 - 5.00
Ti	Titanium - 2.75 - 3.25
Al	Aluminum - 1.20 - 1.60

Percent by weight, maximum unless a range is listed.

Standard Inventory Specifications

- AMS 5708, 5709 (capable of)
- UNS N07002
- PWA LCS
- GE Aircraft Engine (GT193)
- GE Aviation S-SPEC-35 AeDMS S-400
- RR SABRe Edition 2
- Fairchild MS305
- DFARS Compliant
- EN 2.4654

Forms Stocked

- Bar

Thickness Stocked

- 0.236” - 1.010”

Applications

- Aerospace fasteners
- Jet engine components
- Missile components

Call 1.888.282.3292

Or click here to view our product page and request a quote on Waspaloy 5708

Features

- Good strength and oxidation resistance at temperatures up to 1500°F

Physical Properties

Properties	Value
Melting Range	2425 - 2565°F (1329 - 1407°C)

Mechanical Properties

Properties	Value
Hardness	BHN 302 max / Rockwell C 34-44
Density	0.296lb/in^3 (8.19 g/cm^3)