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Inconel 718 round bar

Nickel superalloy | Mozaic Precision Metals technical reference

Strength at elevated temperatures from Nb-related precipitation aging.

GRADE / PRODUCT SELECTION

REFERENCE FIELD	SPECIFICATION / BUYER INFORMATION
Material / product	Inconel 718 round bar
Alloy or product family	Nickel superalloy
Chemical / material identity	UNS N07718 precipitation-hardened nickel-chromium-iron with niobium
Selection consideration	Strength at elevated temperatures from Nb-related precipitation aging
Condition / temper	Specify solution treatment and aging, diameter and MTR
Reference standard to verify	AMS 5662/5663 when required; ASTM B637 for applicable bar
Typical applications	Turbine engine hardware, aerospace fasteners, shafts
Limits / cautions	Standard 718 and special melt/process requirements differ; do not infer certification from grade alone

RELATED MATERIAL CONSIDERATIONS

Compare X-750 for different service temperatures and spring usage.

ORDERING & PROCESSING REQUIREMENTS

Specify the exact grade/product standard, condition, dimensions, quantity, surface finish, straightness and required certification. Specify solution treatment and aging, diameter and MTR.

SOURCING & QUALITY NOTE

Mozaic reviews precision grinding, straightening, polishing, cutting and packaging to order-specific requirements. Numeric strength, chemistry and condition limits must be checked against the applicable specification and actual mill test report.

Reference starting point: Special Metals, INCONEL alloy technical bulletin index

Material page: https://mozaicprecision.com/material/718-bar/

General reference: not a mill test report, certified analysis, stock guarantee or design approval.