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7075 aluminum bar

Wrought aluminum alloy | Mozaic Precision Metals technical reference

High-strength aluminum bar used where stiffness-to-weight and strength requirements dominate.

GRADE / PRODUCT SELECTION

REFERENCE FIELD	SPECIFICATION / BUYER INFORMATION
Material / product	7075 aluminum bar
Alloy or product family	Wrought aluminum alloy
Chemical / material identity	Zinc-magnesium-copper heat-treatable 7xxx alloy
Selection consideration	High-strength aluminum bar used where stiffness-to-weight and strength requirements dominate
Condition / temper	State 7075-T6/T651/T73 as applicable; each has different behavior
Reference standard to verify	ASTM B211/B211M grade/temper product form
Typical applications	Aircraft fittings, machine components, high-load shafts
Limits / cautions	Stress-corrosion susceptibility and welding constraints depend on temper

RELATED MATERIAL CONSIDERATIONS

Compare 2024 for fatigue applications and 6061 for fabrication/corrosion.

ORDERING & PROCESSING REQUIREMENTS

Specify the exact grade/product standard, condition, dimensions, quantity, surface finish, straightness and required certification. State 7075-T6/T651/T73 as applicable; each has different behavior.

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: The Aluminum Association, Aluminum Standards & Data

Material page: https://mozaicprecision.com/material/7075-aluminum-bar/

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