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4130 alloy steel round bar

Chromium-molybdenum steel | Mozaic Precision Metals technical reference

Often used where weldability in the correct condition and strength balance matter.

GRADE / PRODUCT SELECTION

REFERENCE FIELD	SPECIFICATION / BUYER INFORMATION
Material / product	4130 alloy steel round bar
Alloy or product family	Chromium-molybdenum steel
Chemical / material identity	Medium-low carbon 41xx Cr-Mo alloy
Selection consideration	Often used where weldability in the correct condition and strength balance matter
Condition / temper	Define normalized, annealed or quenched/tempered condition
Reference standard to verify	ASTM A29/A29M plus any aircraft or AMS requirement
Typical applications	Fixtures, structural shafts, aircraft quality hardware
Limits / cautions	Service strength depends on heat treatment; 4130 and 4140 are not mechanically equivalent

RELATED MATERIAL CONSIDERATIONS

Compare 4140 for higher carbon/hardening potential.

ORDERING & PROCESSING REQUIREMENTS

Specify the exact grade/product standard, condition, dimensions, quantity, surface finish, straightness and required certification. Define normalized, annealed or quenched/tempered condition.

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: SAE J403: Chemical Compositions of SAE Carbon Steels

Material page: https://mozaicprecision.com/material/4130-alloy-steel/

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