sales@mozaicprecision.com
847-637-8379

Custom 455 stainless steel round bar

Age-hardening stainless | Mozaic Precision Metals technical reference

Mechanical properties depend on aging treatment and condition.

GRADE / PRODUCT SELECTION

REFERENCE FIELD	SPECIFICATION / BUYER INFORMATION
Material / product	Custom 455 stainless steel round bar
Alloy or product family	Age-hardening stainless
Chemical / material identity	UNS S45500 precipitation-hardening stainless engineered for high strength
Selection consideration	Mechanical properties depend on aging treatment and condition
Condition / temper	State Custom 455 designation, age condition, tolerance and MTR
Reference standard to verify	AMS 5617/ASTM material spec as explicitly ordered
Typical applications	Medical instrument shafts, aerospace parts, fasteners
Limits / cautions	Do not infer a universal hardness from the Custom 455 trade name

RELATED MATERIAL CONSIDERATIONS

Compare 17-4 PH or 15-5 PH only by design approval.

ORDERING & PROCESSING REQUIREMENTS

Specify the exact grade/product standard, condition, dimensions, quantity, surface finish, straightness and required certification. State Custom 455 designation, age condition, tolerance 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: ASTM International standards catalog (check exact standard)

Material page: https://mozaicprecision.com/material/455-stainless-steel/

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