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446 ferritic stainless steel bar

Ferritic stainless | Mozaic Precision Metals technical reference

Oxidation resistance at elevated temperatures distinct from 430 ferritic grade.

GRADE / PRODUCT SELECTION

REFERENCE FIELD	SPECIFICATION / BUYER INFORMATION
Material / product	446 ferritic stainless steel bar
Alloy or product family	Ferritic stainless
Chemical / material identity	UNS S44600 high-chromium ferritic stainless
Selection consideration	Oxidation resistance at elevated temperatures distinct from 430 ferritic grade
Condition / temper	Define product condition, max operating temperature and atmosphere
Reference standard to verify	ASTM A276 or A479 for applicable bar
Typical applications	Furnace fixtures, heat-resistant fasteners, high-temp mechanical parts
Limits / cautions	High chromium does not mean suited to all aqueous corrosion; thermal embrittlement risks require review

RELATED MATERIAL CONSIDERATIONS

Compare 430 and 430F ferritic stainless for different service requirements.

ORDERING & PROCESSING REQUIREMENTS

Specify the exact grade/product standard, condition, dimensions, quantity, surface finish, straightness and required certification. Define product condition, max operating temperature and atmosphere.

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/446-stainless-steel-bar/

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