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1215 free-machining carbon steel bar

Resulfurized and rephosphorized steel | Mozaic Precision Metals technical reference

Lead-free grade alternative in some screw-machining applications.

GRADE / PRODUCT SELECTION

REFERENCE FIELD	SPECIFICATION / BUYER INFORMATION
Material / product	1215 free-machining carbon steel bar
Alloy or product family	Resulfurized and rephosphorized steel
Chemical / material identity	SAE 1215 is a free-machining low-carbon steel without intentional lead addition
Selection consideration	Lead-free grade alternative in some screw-machining applications
Condition / temper	Specify OD tolerance, surface finish, length and drawing requirements
Reference standard to verify	SAE J403; ASTM A29/A108 product standard as ordered
Typical applications	Screw machine pins, threaded components, fittings
Limits / cautions	1215 corrosion resistance and strength may require separate protective processing

RELATED MATERIAL CONSIDERATIONS

Compare leaded 12L14 on lead restrictions and machining productivity.

ORDERING & PROCESSING REQUIREMENTS

Specify the exact grade/product standard, condition, dimensions, quantity, surface finish, straightness and required certification. Specify OD tolerance, surface finish, length and drawing requirements.

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/1215-steel/

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