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12L14 leaded free-cutting carbon steel

Leaded carbon steel | Mozaic Precision Metals technical reference

Efficient for complex turned components but inappropriate for lead-restricted use.

GRADE / PRODUCT SELECTION

REFERENCE FIELD	SPECIFICATION / BUYER INFORMATION
Material / product	12L14 leaded free-cutting carbon steel
Alloy or product family	Leaded carbon steel
Chemical / material identity	SAE 12L14 intentionally adds lead to improve chip breakage
Selection consideration	Efficient for complex turned components but inappropriate for lead-restricted use
Condition / temper	Specify cold-drawn surface, precise diameter and material certification
Reference standard to verify	SAE J403/ASTM A108 when applicable
Typical applications	High volume screws, fittings, connectors
Limits / cautions	Do not assume weldability, strength or potable-water compliance from free-machining claims

RELATED MATERIAL CONSIDERATIONS

Compare lead-free 1215 and 11L17 leaded different carbon composition.

ORDERING & PROCESSING REQUIREMENTS

Specify the exact grade/product standard, condition, dimensions, quantity, surface finish, straightness and required certification. Specify cold-drawn surface, precise diameter and material certification.

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/12l14-steel/

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