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11L17 leaded carbon steel round bar

Leaded free-machining steel | Mozaic Precision Metals technical reference

Good chip control for precision-turned components; carburizing sometimes selected.

GRADE / PRODUCT SELECTION

REFERENCE FIELD	SPECIFICATION / BUYER INFORMATION
Material / product	11L17 leaded carbon steel round bar
Alloy or product family	Leaded free-machining steel
Chemical / material identity	Lead-added 1117-family resulfurized low-carbon steel
Selection consideration	Good chip control for precision-turned components; carburizing sometimes selected
Condition / temper	Specify leaded designation, condition, OD and quote quantity
Reference standard to verify	SAE J403; verify buyer-specific chemistry and bar finish
Typical applications	Turning blanks, small shafts, pins
Limits / cautions	Lead-containing stock not suitable for all regulatory/contact uses

RELATED MATERIAL CONSIDERATIONS

Compare 1117 nonleaded and 12L14 free-machining.

ORDERING & PROCESSING REQUIREMENTS

Specify the exact grade/product standard, condition, dimensions, quantity, surface finish, straightness and required certification. Specify leaded designation, condition, OD and quote quantity.

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/11l17-steel/

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