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1144 StressProof steel round bar

Stress-relieved carbon steel | Mozaic Precision Metals technical reference

Distinguish producer-proprietary StressProof from generic 1144 of same nominal chemistry.

GRADE / PRODUCT SELECTION

REFERENCE FIELD	SPECIFICATION / BUYER INFORMATION
Material / product	1144 StressProof steel round bar
Alloy or product family	Stress-relieved carbon steel
Chemical / material identity	1144 is a resulfurized medium-carbon steel; StressProof is a branded cold-drawn product with specific processing
Selection consideration	Distinguish producer-proprietary StressProof from generic 1144 of same nominal chemistry
Condition / temper	Specify genuine trademark product and certified minimum properties on PO
Reference standard to verify	Producer StressProof data sheet plus ASTM A29 for generic chemistry
Typical applications	Precision shafts, hydraulic pins, machined axles
Limits / cautions	Generic SAE 1144 does not automatically meet StressProof branded product claims

RELATED MATERIAL CONSIDERATIONS

Compare 1141 and 1045 based on tensile strength and dimensional stability.

ORDERING & PROCESSING REQUIREMENTS

Specify the exact grade/product standard, condition, dimensions, quantity, surface finish, straightness and required certification. Specify genuine trademark product and certified minimum properties on PO.

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/1144-stress-proof-steel-round-bar/

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