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S7 shock-resistant tool steel

Tool steel | Mozaic Precision Metals technical reference

Toughness under impact is its defining selection consideration.

GRADE / PRODUCT SELECTION

REFERENCE FIELD	SPECIFICATION / BUYER INFORMATION
Material / product	S7 shock-resistant tool steel
Alloy or product family	Tool steel
Chemical / material identity	Chromium-molybdenum shock-resisting tool steel
Selection consideration	Toughness under impact is its defining selection consideration
Condition / temper	State annealed stock, intended hardening range and impact loading
Reference standard to verify	ASTM A681 grade S7
Typical applications	Impact punches, chisels, shear tooling
Limits / cautions	S7 is not automatically the best wear tool; impact toughness and abrasive wear involve trade-offs

RELATED MATERIAL CONSIDERATIONS

Compare D2 for wear focus and A2 for general-purpose dies.

ORDERING & PROCESSING REQUIREMENTS

Specify the exact grade/product standard, condition, dimensions, quantity, surface finish, straightness and required certification. State annealed stock, intended hardening range and impact loading.

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: Carpenter Technology, S7 tool steel

Material page: https://mozaicprecision.com/material/s7-tool-steel/

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