

High-carbon round stock technical guide

Carbon steel grade family | Mozaic Precision Metals technical reference

Turn this URL into chemistry/condition selection guide distinct from supply page.

GRADE / PRODUCT SELECTION

REFERENCE FIELD	SPECIFICATION / BUYER INFORMATION
Material / product	High-carbon round stock technical guide
Alloy or product family	Carbon steel grade family
Chemical / material identity	Higher carbon alloys often trade ductility against hardness/wear potential
Selection consideration	Turn this URL into chemistry/condition selection guide distinct from supply page
Condition / temper	Specify actual 10xx grade and supply condition
Reference standard to verify	SAE J403/ASTM A29
Typical applications	Wear components, mechanical spring parts, industrial tooling
Limits / cautions	Cannot assign universal hardness to high-carbon steel without heat treatment

RELATED MATERIAL CONSIDERATIONS

Compare 1045 and high-carbon stock supplier page.

ORDERING & PROCESSING REQUIREMENTS

Specify the exact grade/product standard, condition, dimensions, quantity, surface finish, straightness and required certification. Specify actual 10xx grade and supply condition.

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/high-carbon-round-stock/>