



EN19 Forged Round Bars in Machinable Condition â?? Precision Ready Alloy Steel

net Industrie EN19 forged rounds in machinable condition are a top choice for critical engineering components that demand high tensile strength, good ductility, shock resistance, and excellent machinability. Typically falling under the BS970:1955 EN19 standard (also known as 709M40 under BS970:1991), this chromium-molybdenum alloy steel offers a fine balance of toughness and strength, making it highly suitable for machining-intensive operations prior to hardening or heat treatment.

At Steelmet Industries, we offer EN19 forged rounds in machinable conditiona??also known as soft annealed or normalized + tempered conditiona??in diameters ranging from 40mm to 400mm, with custom size and cut length options, especially suited for applications where pre-machining is critical before final hardening and finishing.

Key Characteristics of EN19 Forged Bars

Standard: BS970:1955 EN19

Alternate Designation: 709M40 (BS970:1991), AISI 4140

• **Delivery Condition:** Machinable (typically Annealed or N+T)

Material Type: Cr-Mo alloy steel

• Surface: Black forged or machined



- Machinability: Excellent in this condition, ideal for turning/milling
- Post Processing: Suitable for hardening, tempering, and surface nitriding

Applications of EN19 Forged Rounds in Machinable Condition

EN19 is widely used across industries due to its adaptability to various heat treatments. Machinable EN19 forged bars are typically used to manufacture:

- High-strength automotive shafts, gears, and pinions
- Sto Crankshafts spindles, axles, and connecting rods
 - General purpose mechanical parts requiring good machinability
 - Tool holders, jigs, and fixtures
 - ring good machinability

 Steels, Stainless Steels Mining and oilfield components requiring moderate wear resistance

Other Forms & Conditions Available

Steelmet Industries also supplies EN19 in a variety of shapes and finishes:

- Bright bars a?? drawn, peeled, or ground
- Flats, Squares, and Custom Profiles
- Heat treated and tempered, N+T, or hardened and tempered
- Rough machined or turned finishes
- Also available in cut-to-length bars for process-ready delivery



Global Equivalent Grades for EN19 Alloy Steel

Equivalent Grade Standard

BS970:1955 **EN19** BS970:1991 709M40 AISI/SAE 4140

DIN 42CrMo4 (1.7225)

ISO 42CrMo4 40CrMoS4 IS (India) JIS (Japan) **SCM440** GOST (Russia) 38Kh2MFA UNI (Italy) 42CrMo4 AFNOR (France) 42CD4

AFNOR (France)
GB (China) 42CrMo

Disclaimer: These equivalencies are based on chemical compositions property and heat treatment suitability for critical applications.

Applications, see:

- DIN Steel Grades
- SAE Steel Grades

Why Order EN19 Forged Bars from Steelmet Industries?

Steelmet Industries specializes in supply of EN19 forged rounds across India and globally, with key advantages such as:

- a? Wide size range availability, including non-standard diameters
- â? Custom cut lengths for ease of machining and logistics
- â? Consistent supply & scheduled deliveries for production planning



- â? Traceability through:
 - MTCs (Mill Test Certificates)
 - Third-party inspection reports
 - Lorry receipts & dispatch documentation
 - Customer-verified endorsements

â? Access to NABL-certified labs and strict quality policies

Explore all offerings: What We Do

Quality Policy Stries Bright Ba Frequently Asked Questions About EN19 Forged Rounds

Q1: What does a??machinable conditiona? mean for EN19 forged rounds?

A: Machinable condition typically refers to bars supplied in annealed or normalized and tempered condition, where the hardness is low (~200â??250 BHN), ensuring easy cutting, turning, and milling.

Q2: Can EN19 forged rounds be used without further heat treatment?

A: Yes, in some cases. However, most applications require hardening and tempering to fully utilize EN19â??s high tensile and fatigue strength capabilities.

Q3: Are EN19 and AISI 4140 the same?

A: They are close equivalents in terms of chemistry and performance. Always refer to the project specifications to verify tolerances.

Q4: Do you provide forged EN19 bars with documentation and third-party inspection?

A: Yes. Upon prior agreement, we can supply MTCs, lab reports, inspection documents, and even transport records.



Q5: Do you export EN19 bars?

A: Absolutely. We serve both Indian and international clients with full export documentation and packaging as required.

Get a Quote or Know More

ð??? Call us at:

India: 0712-2728071 | International: +91-712-2728071

ð??¬ WhatsApp: +917122728071

ð??• Enquiry Form: Submit Your Requirement

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Teels, Free Cutting Steels, Stainless Steels ð?? We cater to customers across India, the Middle East, Southeast Asia, Europe, and beyond.

- 3. AISI 4140 Equivalent
- 4. Alloy Steel India
- 5. BS970 EN19
- 6. Chromium Molybdenum Steel
- 7. EN19 Forged Rounds
- 8. EN19 Machinable Steel
- 9. EN19 Round Bars
- 10. Forged Bars for Machining
- 11. Steel for Heat Treatment
- 12. Steel for Shafts and Gears
- 13. Steelmet Industries

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