



EN24 Forged Rounds in Annealed Condition â?? Ready for Machining & Heat Treatment

net Industrie EN24 forged rounds in annealed condition are high-tensile alloy steel bars used for demanding applications where toughness, fatigue strength, and wear resistance are critical. Supplied in the annealed condition, these bars are ideal for further processing like machining and heat treatment (hardening & tempering).

At Steelmet Industries, we offer EN24 forged bars in a wide range of diameters, including nonstandard sizes, with the flexibility of custom lengths and optional documentation support for critical applications.

Key Features of EN24 Forged Annealed Bars

Grade: BS970 1955 EN24 (also known as 817M40 in BS970:1991)

• Condition: Annealed

• Form: Forged round bars

• Composition: Ni-Cr-Mo alloy steel (~0.40% C, 1.5% Ni, 0.9% Cr, 0.25% Mo)

• Tensile Strength (after treatment): Up to 1000 MPa

• Excellent hardenability & fatigue resistance



Suitable for further heat treatment

Applications of EN24 Forged Rounds

This alloy steel is widely used in the manufacture of:

- · High-performance shafts, spindles, gears
- Aerospace components
- Automotive axles and crankshafts

Forging dies and tool holders
 Marine and heavy-duty industrial parts

The annealed condition makes it ideal for machining before final hardening.

Other Variants & Conditions Available

Steelmet Industries also supplies EN24 in:

- Proof Machined bars
- Heat treated (QT or N+T) bars
- Other shapes: Squares, Flats, and Custom Profiles

You may explore our What We Do page for a complete list.

Global Equivalent Grades for EN24

Equivalent Grade Standard

BS970-1955 EN24 BS970-1991 817M40



Standard **Equivalent Grade**

DIN 34CrNiMo6 (1.6582)

AISI/SAE 4340

IS 40NiCr1Mo28 JIS SNCM439 **GOST** 38ChNM ISO 34CrNiMo6 AFNOR 35NCD6 UNI 40NiCrMo7

Disclaimer: Equivalents are based on chemical composition. Mechanical properties may differ. Refer to individual stance.

For details, see:

BS970:1955 Specification

BS970:1955 Specification

Steels, Stainless Steels

Steels

GB (China) 40CrNiMo

Why Choose EN24 from Steelmet Industries?

- Wide size range including non-standard forged diameters
- Custom length cutting as per order
- Ready stock in annealed condition
- Timely dispatch with scheduled delivery
- Full traceability on request:
 - MTC (Mill Test Certificate)



- Lab reports
- Transport and dispatch proof
- Third-party inspection or customer-approved labs

We take pride in our commitment to quality. Read our Quality Policy for more.

Place Your EN24 Forged Round Bar Inquiry

A1: In the annealed state, EN24 typically has a hardness around 220 BHN, making it suitable for machining before hardening.

Q2: Can EN24 forged bars be directly used without heat treatment?

A2: While possible, EN24 reaches its optimal strength and wear resistance after heat treatment like hardening and tempering.

Q3: What is the delivery condition of EN24 bars from Steelmet Industries?

A3: Steelmet offers EN24 bars in annealed, normalized, or heat-treated conditions depending on customer requirements.

Q4: What sizes are available in EN24 forged rounds?

A4: Steelmet can supply EN24 forged rounds from 40 mm up to 400 mm diameter, with non-standard sizes available on request.

Q5: Does Steelmet provide EN24 bars with MTCs and inspection reports?

A5: Yes, full traceability with MTCs, third-party lab reports, and dispatch proof can be provided upon prior agreement.

Category

1. Posts

Tags



- 1. 34CrNiMo6
- 2. 817M40
- 3. Alloy Steel Bars
- 4. Annealed Steel Bars
- 5. BS970 EN24
- 6. CrNiMo Steel
- 7. EN24 Annealed Bars
- 8. EN24 Forged Rounds
- 9. EN24 Shafts
- 10. Forged Alloy Rounds
- 11. High Strength Steel Bars
- 12. Machinable Steel
- 13. Steel for Aerospace
- imet Industries

 Free Cutting Steels, Stainless Steels 14. Steel for Heat Treatment
- 15. Steelmet Industries

Date 03/12/2025 **Author** admin

Page 5