



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

Description

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 **non-standard 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

Standard	Equivalent Grade
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
GB (China)	40CrNiMo

Disclaimer: Equivalents are based on chemical composition. Mechanical properties may differ. Refer to individual standards for critical use.

For details, see:

- [BS970:1955 Specification](#)
- [DIN Standards](#)
- [SAE Steel Grades](#)

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

For domestic or international orders, contact Steelmet Industries:

• Website: www.steelmet.in

India Phone: 0712-2728071

Overseas: +91-712-2728071

WhatsApp: +917122728071

Enquiry Form: [Submit Now](#)

FAQs

Q1: What is the hardness of EN24 in annealed condition?

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.

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