

EN24 Rolled Rounds â?? Medium Alloy Steel Bars with High Strength and Toughness

Steelmet Industries, Bright Bars, Alloy Steels, Free Cutting Steels, Stainless Steels

Description

EN24, designated under **BS970:1955**, is a **nickel-chromium-molybdenum alloy steel** with exceptional mechanical properties. It offers a rare combination of **high tensile strength**, **shock resistance**, **wear resistance**, and **good ductility**. Rolled rounds of EN24 are ideal for high-stress applications such as shafts, gears, spindles, and automotive components.

At Steelmet Industries, we offer **EN24 rolled round bars** in a wide size range from **16mm to 150mm diameter**, with options in **as-rolled**, **annealed**, or **machinable condition**, ready for further processing or heat treatment.

Key Characteristics of EN24 Rolled Rounds

- **Standard:** BS970:1955
- **Grade:** EN24
- **Composition:** Ni 1.3â??1.7%, Cr 0.9â??1.4%, Mo 0.2â??0.35%, C 0.36â??0.44%
- **Condition Offered:** As rolled, softened, or rough machined
- **Machinability:** Good in softened or normalized condition
- **Heat Treatable:** Yes â?? widely used in quenched & tempered condition

- **Corrosion Resistance:** Better than carbon steels but not stainless

Applications of EN24 Rolled Round Bars

Due to its strength and toughness, EN24 rolled rounds are widely used in:

- **Automotive & Transportation:** Crankshafts, propeller shafts, half shafts, axles
- **Mechanical Engineering:** Gears, bolts, connecting rods, spindles, couplings
- **Construction Equipment:** Rollers, pins, bushes
- **Tooling:** Mandrels, collets, dies
- **Aerospace (non-critical parts):** Landing gear components, actuators

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EN24 in Different Conditions and Product Forms

At Steelmet Industries, we stock and supply:

- **Rolled Rounds:** Dia 16mm to 150mm
- **Forged Bars:** For sizes above 150mm
- **Bright Bars:** Peeled, cold drawn, ground
- **Custom Lengths:** Cut to specification
- **Variants Available:**
    - **EN24 Annealed** â?? easier machining
    - **EN24 N+T (Normalized & Tempered)**

- **EN24 QT (Quenched & Tempered)**

See also: EN24 Forged Rounds in Annealed Condition

Equivalent Steel Grades â?? EN24

Standard	Equivalent Grade
BS (1955)	EN24
BS (1991)	817M40
AISI / SAE	4340
ASTM	A29/A322 4340
DIN	34CrNiMo6 (1.6582)
ISO	34CrNiMo6
JIS	SNCM447
GOST	40KhN2MA
IS (India)	40NiCrMo6
GB (China)	40CrNiMo

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Note: Equivalents are based on chemical composition. Exact match for mechanical properties requires consideration of heat treatment and processing routes.

For more, refer:

- BS970 1955 Standard
- DIN Steel Grades

Why Choose Steelmet for EN24 Rolled Rounds?

- â? Size range: 16mm to 150mm in stock â?? quick delivery
- â??ï¸• Customization: Cut lengths, chamfering, surface finishing on request
- ð??? Full traceability & documentation possible:

- Mill Test Certificates (MTCs)
- Third-party test reports
- Lorry receipts & packing lists
- Lab reports (NABL-certified)

- ð??• Supplies across India and to export destinations
- â•‘• Commitment to scheduled deliveries and long-term procurement planning

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Our focus on **quality**, **flexibility**, and **responsiveness** has made Steelmet Industries a preferred source for reliable EN24 alloy steels.

Learn more about What We Do and our Quality Policy

Frequently Asked Questions about EN24 Rolled Rounds

Q1: Is EN24 good for hardening?

A: Yes. EN24 responds well to hardening via quenching and tempering, making it suitable for components under high stress or wear.

Q2: Whatâ??s the difference between EN24 and SAE 4340?

A: SAE 4340 is the American equivalent of EN24. Both offer similar strength and toughness, but availability and minor chemistry tweaks can differ.

Q3: Are EN24 rolled bars supplied in machinable condition?

A: Yes. We supply EN24 in annealed or normalized & tempered form, ready for machining or further heat treatment.

Q4: Do you offer lengths customized as per the customerâ??s needs?

A: Yes. We offer custom cut lengths and can also provide chamfered ends for ready-to-use material.

Q5: Are third-party inspections and reports available?

A: Absolutely. With prior arrangement, Steelmet can provide NABL lab tests, customer-nominated third-party inspection, and comprehensive dispatch documentation.

Get in Touch for EN24 Rolled Bars

ð??? Call us at: 0712-2728071 (India) | +91-712-2728071 (Global)
ð??• Submit an enquiry here: Contact & Enquiry Page
ð??• Visit our website: www.steelmet.in

Serving **India and global markets** with consistency, quality, and flexibility.

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Date
03/11/2026
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