



## EN24 Rolled Rounds – Medium Alloy Steel Bars with High Strength and Toughness

### 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](https://www.steelmet.in), 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 1.3–1.7%, Cr 0.9–1.4%, Mo 0.2–0.35%, C 0.36–0.44%
- **Condition Offered:** As rolled, softened, or rough machined
- **Machinability:** Good in softened or normalized condition
- **Heat Treatable:** Yes – widely used in quenched & tempered condition

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- **Corrosion Resistance:** Better than carbon steels but not stainless
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## 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)**
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- EN24 QT (Quenched & Tempered)

See also: [EN24 Forged Rounds in Annealed Condition](#)

## Equivalent Steel Grades of EN24

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

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

- Mill Test Certificates (MTCs)
- Third-party test reports
- Lorry receipts & packing lists
- Lab reports (NABL-certified)
- Supplies across India and to export destinations
- Commitment to scheduled deliveries and long-term procurement planning

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](#)

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## 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: What'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 customer'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?

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

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## Get in Touch for EN24 Rolled Bars

Call us at: 0712-2728071 (India) | +91-712-2728071 (Global)

WhatsApp: +917122728071

Submit an enquiry here: [Contact & Enquiry Page](#)

Visit our website: [www.steelmet.in](http://www.steelmet.in)

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### Author

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