



## EN19 Rolled Rounds – The Industry Standard for Strength and Machinability

### Description

EN19, as per BS970:1955, is a medium carbon chromium-molybdenum alloy steel known for its **high tensile strength, excellent wear resistance, and superior toughness**. Steelmet Industries offers EN19 rolled round bars in diameters ranging from 16mm to 200mm, available in multiple conditions including **as-rolled, softened/annealed, and machinable** formats.

These bars are widely used in **automotive, machinery, forging, and precision engineering** industries across India and international markets.

## Key Characteristics of EN19 Rolled Rounds

- **Standard:** BS970:1955
- **Grade:** EN19
- **Composition (approx.):** C 0.35-0.45%, Cr 0.9-1.2%, Mo 0.2-0.35%
- **Condition:** Rolled, Annealed, Rough Machined
- **Heat Treatable:** Yes – widely used in Q&T condition
- **Hardness Range:** Can be hardened up to 58 HRC after treatment
- **Machinability:** Good in annealed condition

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- **Weldability:** Moderate  $\hat{??}$  requires precautions
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## Common Applications of EN19 Rolled Bars

EN19 is a versatile and highly demanded alloy steel used in:

- **Automotive Parts:** Axles, shafts, pinions, gears
- **Industrial Equipment:** Couplings, spindles, lifting parts
- **Machine Tools:** Tool holders, arbors, fixture components
- **Forgings & Heat Treated Components:** Crankshafts, connecting rods
- **Hydraulic Machinery:** Pistons, rods, sleeves

EN19 combines strength and ease of processing, making it ideal for post-machining heat treatment.

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## Availability at Steelmet Industries

We offer **EN19 Rolled Rounds** in the following formats:

- **Size Range:** 16mm to 200mm in rolled condition
- **Other Forms:** Forged bars (above 200mm), bright bars
- **Variants:**
  - EN19 Annealed  $\hat{??}$  for machining
  - EN19 Normalized & Tempered
  - EN19 Quenched & Tempered

- **Other Sections:** Squares, flats, hexagons, custom profiles on request
- **Custom Cutting:** Available for all sizes
- **End Finishing:** Chamfered, cleaned, bundled on request

Explore our [What We Do](#) section for more.

## Global Equivalent Grades of EN19

### Standard Equivalent Grade

BS (1955) EN19

BS (1991) 709M40

AISI / SAE 4140

ASTM A29/A322 4140

DIN 42CrMo4 (1.7225)

ISO 42CrMo4

JIS SCM440

GOST 38KhM

IS (India) 40CrMo6

GB (China) 42CrMo

*Disclaimer: Equivalents are based on chemistry. Mechanical properties may vary based on processing route and treatment.*

View related references:

- [BS970 1955](#)
- [DIN Specifications](#)
- [SAE Steel Specs](#)

## Why Choose Steelmet for EN19 Rolled Bars?

- **Wide Diameter Range:** 16mm to 200mm
- **Custom Cuts & Profiles:** Lengths, finishes, bundling
- **Documentation:**
  - Test Certificates (MTC)
  - Internal Reports
  - Third-party Inspection (optional)
  - NABL-certified lab results
  - Lorry Receipts
- **Timely Deliveries:** Structured scheduling, repeat order flexibility
- **Reach:** Serving both Indian and global clients
- **Support:** Technical assistance, process route traceability

Know more about our [Quality Policy](#) and commitment to engineering excellence.

## Frequently Asked Questions â?? EN19 Rolled Rounds

### Q1: Can EN19 be used in high wear or fatigue applications?

A: Yes, EN19 is ideal for applications with cyclic loading, high stress, and moderate wear after heat treatment.

### Q2: Is EN19 better than EN8?

A: EN19 offers higher strength, better toughness, and more wear resistance compared to EN8.

### Q3: What sizes of EN19 rolled rounds do you stock?

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**A:** Steelmet offers EN19 rolled rounds from 16mm up to 200mm diameter, with other forms like forged or bright bars also available.

**Q4: Is EN19 weldable?**

**A:** Yes, but welding must be done with care using low hydrogen electrodes and preheat/postheat treatment to avoid cracking.

**Q5: Do you supply EN19 with MTCs and third-party lab tests?**

**A:** Absolutely. We offer comprehensive documentation, including third-party inspections and NABL test reports, upon request.

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**Ready to Order EN19 Rolled Bars?**

☎ **Call:** 0712-2728071 (India) | +91-712-2728071 (Overseas)

☎ **WhatsApp:** +917122728071

☎ **Website:** [www.steelmet.in](http://www.steelmet.in)

☎ **Enquiry Form:** [Submit Your Requirement](#)

Whether you are in **India or exporting globally**, Steelmet is your reliable partner for alloy steel bars.

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- 1. Posts

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- 3. EN19 Bars for Machining
- 4. EN19 India Supplier
- 5. EN19 Rolled Rounds
- 6. EN19 Shafts
- 7. Rolled Alloy Steel
- 8. SAE 4140
- 9. SCM440

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**Auteur**

admin