

EN19 Rolled Rounds â?? The Industry Standard for Strength and Machinability

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

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 0.35â??0.45%, Cr 0.9â??1.2%, Mo 0.2â??0.35%
- **Condition:** Rolled, Annealed, Rough Machined
- **Heat Treatable:** Yes â?? 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 â?? requires precautions

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 â?? 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

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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?

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

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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?

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.

Ready to Order EN19 Rolled Bars?

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ð??? **Call:** 0712-2728071 (India) | +91-712-2728071 (Overseas)
ð??• **Website:** www.steelmet.in
ð??¨ **Enquiry Form:** Submit Your Requirement

Whether youâ??re in **India or exporting globally**, Steelmet is your reliable partner for alloy steel bars.

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