



EN8 Hot Rolled Black Square Bars – 16mm to 150mm – Tough Medium Carbon Steel for Engineering Use

Descrição

EN8, as per BS970:1955, is a widely used medium carbon steel offering an ideal balance between strength, hardness, and machinability. At Steelmet Industries, we supply EN8 Hot Rolled Black Square Bars in a comprehensive size range from 16mm to 150mm, serving diverse sectors such as heavy engineering, agriculture, tool making, and automotive component manufacturing.

Hot rolled square bars provide a robust starting material for forgings, machine bases, structural applications, and heavy-duty components where tight dimensional tolerances are not critical in the assupplied condition.

Key Technical Details

Standard: BS970:1955

Grade: EN8

Shape: Square (Hot Rolled, Black Finish)

Size Range: 16mm to 150mm

Condition: As Rolled / Annealed (on request)

Finish: Black surface with mill scale



- Hardness: ~180-230 BHN (As Rolled)
- Machinability: Moderate
- Heat Treatment: Suitable for hardening and tempering
- Weldability: Limited Preheat recommended

Applications of EN8 Black Squares

- Forgings, shafts, and levers
- Machine tool frames and plates
- Bushes, clamps, and guide blocks
- and construction equipment Steels, standard dies
- ty tools and dies

Advantages of EN8 Hot Rolled Squares

- Good strength and toughness balance
- Cost-effective for structural or forging use
- Readily available in multiple sizes
- Suitable for hardening and further machining
- **Durable material for rugged environments**



Also Available from Steelmet Industries

- EN8 in Rounds, Hexagons, and Flats
- Cold Drawn Bright Squares for tighter tolerances
- Custom supply in cut lengths and bulk packaging
- Higher-purity EN8D variant on request

Global Grade Equivalents for EN8 Standard Equivalent Grade AISI / SAE 1040 / 1045 EN (New) C45E / C40E (EN10083) DIN CK45 / 1 146

C45 ISO₄

JIS S45C

GOST 45

IS IS 1570 C45

BS (Old) EN8

BS (New) 080M40

GB (China) 45#

Note: Equivalent grades listed above are based on similar chemical composition. Users should verify exact mechanical properties and applications before substitution. For more, see BS970:1955 Specification.

Steelmet Industries - Consistency You Can Count On



- ? Wide size range 16mm to 150mm square
- ?? Custom lengths and cut-to-size services
- ? **Documentation** support MTCs, TCs, lorry receipts, inspection reports
- ? Scheduled delivery support for industrial projects
- ? Serving India and international markets since decades
- ?? Trusted for engineering-grade steels

See our Quality Policy and explore other Specifications

S, Alloy Steels Frequently Asked Questions - EN8 Black Square Bars

Q1: What is the surface condition of EN8 hot rolled black squares?

A: These bars have a black oxide layer (mill scale) from the hot rolling process, suitable for rough machining or forging applications.

Q2: Are EN8 black squares supplied annealed?

A: As standard, they are hot rolled. Annealing or normalizing can be arranged upon request for better machinability.

Q3: Can I get third-party inspection or test certificates?

A: Yes. Upon prior agreement, Steelmet Industries can supply third-party inspection reports, internal QC reports, and MTCs.

Q4: Is EN8 black square weldable?

A: It is weldable with pre-heating and post-weld treatment. Welding is not as straightforward as lowcarbon steels.

Q5: What sizes are available ex-stock?

+91-712-2728071 | www.steelmet.in

A: Sizes from 16mm to 150mm square are commonly available. Custom requirements can also be produced.

Enquire Today

? India: 0712-2728071

? Website: www.steelmet.in ? WhatsApp: +917122728071 ? International: +91-712-2728071

? Enquiry Form: Click here

Categoria

EINB Square Bars
6. Forging Steel
7. Medium Carbon Steel India
8. Square Section Steel
9. Structural Steel Bars

ta

08/2007

Etiquetas

Data 10/08/2025 **Autor**

admin

