



Ordering Bright Steel Bars as per IS 9550 – A Complete Buyer’s Checklist

Description

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When ordering **bright steel bars** for critical engineering applications, it’s essential to follow the **IS:9550:2001 specification** to ensure correct material selection, surface quality, tolerances, and traceability.

This guide from **Steelmet Industries** simplifies the process with a checklist derived from Annex A of IS 9550 and related clauses.

Buyer Checklist: What to Specify in the Purchase Order

Table 1: Order Parameters as per IS 9550

| Parameter | Details to Specify |
|------------------------|---|
| Chemical Composition | Specify steel grade or refer to IS/International equivalents (e.g., EN8D, C45) |
| Surface Finish | Drawn / Turned / Ground / Turned & Reeled (optional: specify surface roughness in μm) |
| Mechanical Properties | Required tensile/yield strength or hardness (if applicable) |
| Dimensional Tolerances | As per IS 919 (e.g., h10, h11); shape and size must be clearly mentioned |
| Surface Defect Class | Class 1, 2, 3, or 4 (based on application criticality) |
| Heat Treatment | Specify if bars should be annealed, normalized, stress-relieved, or quenched & tempered |
| Delivery Condition | e.g., Cold drawn, Cold drawn & ground, Hot wrought & machined |
| Length Requirement | Standard (2.5 m – 4.5 m) or specific length with tolerance (+8 mm) |

| Parameter | Details to Specify |
|----------------------|---|
| Testing Requirements | MTC required? Specify optional tests (e.g., Grain size, Inclusion rating, UT/MPI) |

Marking and Packing Guidelines

- **Bars above 50 mm dia:** Must be stamped with cast number and supplier code
- **Bars \leq 50 mm dia:** To be bundled and tagged with metal labels including:
 - Supplier name
 - Cast/heat number
 - Size and mass
 - Order number
- Rust-preventive coating as per IS 1153/1154
- Bundles to be wrapped in hessian and tied securely

Standard Delivery Conditions

Table 2: Delivery Options by Size and Shape

| Bar Type | Size Range | Delivery Condition |
|--------------------------|-------------|-------------------------------------|
| Round Bars | Up to 50 mm | Cold drawn |
| Round Bars | Above 50 mm | Cold drawn or Hot rolled and turned |
| Squares, Hexagons, Flats | All sizes | Cold drawn |

How Steelmet Industries Helps Buyers

- Clear technical documentation and MTCs
- Traceability: cast numbers, test certificates, packing slips
- Stock and make-to-order flexibility
- Support in selecting tolerances and surface finish based on end use

Our bright bars are widely used in **automotive, agricultural, defense, and precision machining industries.**

Need IS 9550-Compliant Bright Bars?

Get expert guidance and ready stock or custom manufacturing from **Steelmet Industries.**

[Contact us today](#) for a quote or to discuss your technical requirements.

FAQs: Ordering Bright Bars Under IS 9550

What information should I give when ordering bright bars?

You should specify grade, size, tolerance class, surface finish, testing needs, length, and heat treatment condition as per IS 9550 Annex A.

Is it mandatory to specify the surface defect class?

It's recommended, especially for critical applications. You can choose from Class 1 to Class 4 as per IS 9550 defect depth guidelines.

What kind of marking is required under IS 9550?

Bars over 50 mm dia are stamped; smaller sizes are bundled and tagged with supplier name, heat number, and size details.

By Steelmet Industries Team - Experts in Special Steels

Category

1. IS:9550-2001

Tags

1. bright bars
2. Buyer Checklist
3. Engineering Steel Standards
4. IS 9550
5. MTC
6. Steel Ordering
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