

H13 TOOL STEEL DATA SHEET

Buyer reference for grade designations, key nominal chemistry, available product forms, inspection planning and RFQ preparation.

Grade designations

System	Designation	Purchasing note
AISI / ASTM	H13	Name the governing standard and edition in the RFQ.
DIN / W.Nr.	1.2344	Use as a reference equivalent only unless it governs the order.
JIS	SKD61	State JIS SKD61 when JIS requirements must govern.
GB	4Cr5MoSiV1	Confirm chemistry, delivery condition and inspection separately.

Cross-reference designations identify a related grade family; they do not replace the chemistry, testing, tolerance and documentation requirements of the selected standard.

Key nominal chemistry snapshot

Element	C	Cr	Mo	V
Nominal range, wt.%	0.32-0.45	4.75-5.50	1.10-1.75	0.80-1.20

This is a partial buyer snapshot of key elements, not a complete chemical specification. Final chemistry is verified against the governing order standard and reported on the supplied material certificate.

Product forms and processing

Product form	Current enquiry range	Information to provide
Round bar	Approx. diameter 20-800 mm	Diameter, length, quantity, allowance and condition
Forged block	Up to approx. 1,000 mm thickness	Thickness, width, length, drawing and machining basis
Flat bar / plate	Project-specific review	Three dimensions, tolerance, sawn or six-side milled
Disc / hollow forging	Project-specific review	OD, ID, thickness or length, allowance and drawing

Inspection and documentation planning

Material identity. State the grade, governing standard, heat-number traceability and required certificate type.

Delivery condition. Define annealed or other order-specific condition and any required hardness range and test method.

Ultrasonic testing. If required, name the method or standard, scan coverage, acceptance level and report. SEP 1921 requirements can be reviewed when specified.

Additional inspection. List required metallographic, chemistry, hardness or dimensional records and their acceptance criteria.

Certificate. EN 10204 3.1 material documentation and other reports are order-specific and must be confirmed in the quotation.

RFQ checklist

1	Grade and governing standard
2	Product form and supplied dimensions
3	Finished dimensions, tolerance and machining allowance
4	Quantity by size and sample/production split
5	Conventional or ESR route
6	Delivery condition and hardness requirement
7	Inspection standard, coverage and acceptance level
8	Certificates and reports required with shipment
9	Packaging, destination and delivery term
10	Requested delivery date and drawing revision

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