Radhe Steel

TECHNICAL DATASHEET

11SMn30 / EN1A / 1.0715

Free-cutting steel – bright bars

STANDARD REFERENCE

CHEMISTRY	EN 10087 (free-cutting steels)
BRIGHT PRODUCTS	EN 10277-1 and -3; dimensions and tolerances EN 10278
DELIVERY CONDITION	Cold drawn (+C)



COMPARABLE STANDARDS

Europe (EN)	Germany (DIN / W.-Nr.)	UK (BS 970)	USA (SAE / AISI)	India (IS)	Japan (JIS)
11SMn30	1.0715	230M07 (EN1A)	1215 (nearest)	—	SUM22 (nearest)

"Nearest" means a comparable grade, not an identical one. Check the chemistry limits before substituting one for another.

CHEMICAL COMPOSITION (cast analysis, % by mass)

C	Si	Mn	P	S
≤0.14	≤0.05	0.90-1.30	≤0.11	0.27-0.33

Source: EN 10087 (cast analysis)

MECHANICAL PROPERTIES

Mechanical properties depend on the size and delivery condition. The values for each consignment are stated on the EN 10204 3.1 test certificate; tell us the properties your drawing requires when you ask for a quote.

HEAT TREATMENT

Free-cutting steel is normally supplied and machined without heat treatment. If parts must be case hardened or hardened, ask us for a suitable alternative grade.

SUPPLY RANGE

Shape	Size range (mm)	Tolerance class
Round	Ø 6-100 (alloy grades up to Ø 150)	h9 / h10 / h11
Hexagon	A/F 6-75	h9 / h11
Square	8-80	h11 / h12
Flat	Width 10-150 × thickness 3-50	On request

Catalogue range across grades. Confirm sizes, lengths and availability for this grade when you request a quote.

EN 10204 3.1 test certificate supplied with every delivery. Export orders shipped worldwide from India; ask for export packing and documents when you request a quote.

Scan to WhatsApp for a quote

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