Radhe Steel

TECHNICAL DATASHEET

Mild Steel / SAE 1018 / EN3

Low carbon (mild) steel – bright bars

STANDARD REFERENCE

CHEMISTRY	ASTM A29 / SAE J403 (1018); EN 10277-2 for EN equivalents
BRIGHT PRODUCTS	ASTM A108 (cold finished); 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)
C15E (nearest)	1.1141 (nearest)	070M20 (EN3, nearest)	1018	—	S15C / S20C (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
0.15-0.20	-	0.60-0.90	≤0.040	≤0.050

Source: ASTM A29/A29M, grade 1018 (cast analysis). Si is not specified for 1018.

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

Mild steel is not through-hardened. It can be carburised for a hard surface; ask for the recommended process for your part.

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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