

Technical Data Sheet
Hot Rolled Carbon and Low Alloy Steel bars
Grade A1 (A240)

Size: 8-32 mm

Delivery Standard: INSO 3132

Shape:



1-Dimensional Properties

Nominal Diameter	Nominal Cross Area	1m bar weight	12m bar weight
d	A _n (mm ²)	(kg/m)	w (kg)
8	50.3	0.36-0.43	4.36-5.12
10	78.5	0.57-0.67	6.80-7.98
12	113	0.83-0.94	10.02-11.30
14	154	1.14-1.28	13.65-15.39
16	201	1.50-1.66	18.01-19.91
18	254	1.90-2.10	22.80-25.20
20	314	2.35-2.59	28.16-31.12
22	380	2.83-3.13	33.97-37.55
25	491	3.70-4.00	44.35-48.05
28	616	4.64-5.02	55.64-60.28
32	804	6.06-6.56	72.69-78.75

2-Chemical Analysis

Grade	Standard	C	Si	Mn	P (max)	S (max)
A1	INSO 3132	0.22	0.55	0.75	0.05	0.05

3-Mechanical Properties

Grade	Symbol	Yield Strength	Tensile Strength	Elongation (%)		
		ReH, N/mm ²	R _m , N/mm ²	A ₅	A ₁₀	Agt
A1	A240	240	360	25	18	-

