

## Cold Finished Carbon Steel Bars / Deformed Bars

## COLD FINISHED CARBON STEEL BARS

Specification (JIS G 3108)

Classification	Notation	Chemical Composition (%)				
		C	Si	Mn	P	S
Class 2	SGD-2	0.10 - 0.15	0.40 max.	0.30 - 0.60	0.045 max.	0.045 max.
Class 3	SGD-3	0.15 - 0.20	0.40 max.	0.30 - 0.60	0.045 max.	0.045 max.

Specification (JIS G 3108)

Notation	Chemical Composition (%)				
	C	Si	Mn	P	S
S10C	0.08 - 0.13	0.15 - 0.35	0.30 - 0.60	0.030 max.	0.035 max.
S12C	0.10 - 0.15	0.15 - 0.35	0.30 - 0.60	0.030 max.	0.035 max.
S15C	0.13 - 0.18	0.15 - 0.35	0.30 - 0.60	0.030 max.	0.035 max.
S17C	0.15 - 0.20	0.15 - 0.35	0.30 - 0.60	0.030 max.	0.035 max.
S20C	0.18 - 0.23	0.15 - 0.35	0.30 - 0.60	0.030 max.	0.035 max.
S22C	0.20 - 0.25	0.15 - 0.35	0.30 - 0.60	0.030 max.	0.035 max.
S25C	0.22 - 0.28	0.15 - 0.35	0.30 - 0.60	0.030 max.	0.035 max.
S28C	0.25 - 0.31	0.15 - 0.35	0.30 - 0.60	0.030 max.	0.035 max.
S30C	0.27 - 0.33	0.15 - 0.35	0.30 - 0.60	0.030 max.	0.035 max.
S33C	0.30 - 0.35	0.15 - 0.35	0.30 - 0.60	0.030 max.	0.035 max.
S35C	0.32 - 0.38	0.15 - 0.35	0.30 - 0.60	0.030 max.	0.035 max.
S38C	0.35 - 0.41	0.15 - 0.35	0.30 - 0.60	0.030 max.	0.035 max.
S40C	0.37 - 0.43	0.15 - 0.35	0.30 - 0.60	0.030 max.	0.035 max.
S43C	0.37 - 0.43	0.15 - 0.35	0.30 - 0.60	0.030 max.	0.035 max.
S45C	0.42 - 0.48	0.15 - 0.35	0.30 - 0.60	0.030 max.	0.035 max.
S48C	0.45 - 0.51	0.15 - 0.35	0.30 - 0.60	0.030 max.	0.035 max.
S50C	0.47 - 0.53	0.15 - 0.35	0.30 - 0.60	0.030 max.	0.035 max.
S53C	0.50 - 0.55	0.15 - 0.35	0.30 - 0.60	0.030 max.	0.035 max.
S55C	0.52 - 0.58	0.15 - 0.35	0.30 - 0.60	0.030 max.	0.035 max.
S58C	0.55 - 0.61	0.15 - 0.35	0.30 - 0.60	0.030 max.	0.035 max.

Metric units

## DEFORMED BARS

Section size	Unit weight	Cross section area
	M	A
mm	kg/m	cm <sup>2</sup>
6.0	0.222	0.283
10.0	0.617	0.785
12.0	0.888	1.131
13.0	1.04	1.327
14.0	1.21	1.539
16.0	1.58	2.011
18.0	2.00	2.545
19.0	2.23	2.835
20.0	2.47	3.142
22.0	2.98	3.801

Section size	Unit weight	Cross section area
	M	A
mm	kg/m	cm <sup>2</sup>
24.0	3.55	4.524
25.0	3.85	4.909
26.0	4.17	5.309
28.0	4.83	6.158
29.0	5.19	6.605
30.0	5.55	7.069
32.0	6.31	8.042
35.0	7.55	9.621
38.0	8.90	11.34