

## Rebar Specifications

### General Features:

Diameter (mm)	12	14	16	18	20	22	25	28	32
Nominal Section Area (mm <sup>2</sup> )	113	154	201	254	314	380	491	616	804
Metric Weight (kg/m)	0.888	1.210	1.580	2.000	2.470	2.980	3.850	4.830	6.310
Standard	DSTU 3760-2006; GOST R 52544-2006; GOST 10884-94.								
Steel Grade	A500C; A400C; A <sub>T</sub> 500C; A <sub>T</sub> 400C.								

### Mechanical Properties:

	DSTU 3760-2006		GOST R 52544-2006		GOST 10884-94	
	A500C	A400C	A500C	A400C	A <sub>T</sub> 500C	A <sub>T</sub> 400C
Yield Strength R <sub>e</sub> (N/mm <sup>2</sup> )	500	400	500	400	500	440
Tensile Strength R <sub>m</sub> (N/mm <sup>2</sup> )	600-850	500-750	600	500	600-800	550-750
Relative Elongation after fracture σ%	14	16	14	16	14	16
Bending Degree, min	90	90	90	90	90	90
Bending back Degree, min	-	-	20	-	-	-
R <sub>m</sub> /R <sub>e</sub>	1.05	1.05	1.08	1.08	-	-

### Chemical Composition:

	DSTU 3760-2006		GOST R 52544-2006		GOST 10884-94	
	A500C	A400C	A500C	A400C	A <sub>T</sub> 500C	A <sub>T</sub> 400C
C max %	0.27	0.27	0.24	0.24	0.34	0.26
Mn %	*	*	max 1.7	max 1.7	0.5-1.6	0.5-1.6
Si max %	*	*	0.95	0.95	0.75	0.75
S max %	0.055	0.055	0.055	0.055	0.050	0.050
P max %	0.05	0.05	0.055	0.055	0.050	0.050
C <sub>eq</sub> %	0.30-0.52	up to 18 mm 0.25-0.52	20-40mm 0.30-0.52	max0.52	min 0.40	min 0.32

\* Characteristics of "Mn" and "Si" depend on the margin of "C<sub>eq</sub>".