

A. DIMENSIONS AND MASS

Grade	Nominal Diameter	Nominal Mass	Length	Weight	Pcs/Sub Bundle	Sub Bundle / Master Bundle	Pcs/ Master Bundle	Weight/ Kg Master Bundle	Mandrel Diameter	Bend Angle	
	mm	Kg/m	m	Kg/Pc	pcs						
500N / 500E	12.0	0.888	12	10.656	25	12	300	3,197	4d	90 ⁰	
	16.0	1.58	12	18.96	25	7	175	3,318			
	20.0	2.47	12	29.64	15	7	105	3,112			
		24.0	3.55	12	42.60	7	10	70	2,982	4d	180 ⁰
		28.0	4.83	12	57.96	6	8	48	2,782		
		32.0	6.31	12	75.72	5	8	40	3,029		
		36.0	7.99	12	95.88	5	7	35	3,356		

B. CHEMICAL COMPOSITION

Grade	Carbon(%)	Phosphor(%)	Sulfur(%)	
500E	0.24 max	0.055 max	0.055 max	$C_{eq} = C + Mn/6 + (Cr+Mo+V)/5 + (Ni+Cu)/15 = 0.51 \text{ Max}$
500N				$C_{eq} = C + Mn/6 + (Cr+Mo+V)/5 + (Ni+Cu)/15 = 0.46 \text{ Max}$

C. MECHANICAL PROPERTIES

GRADE : 500E

Yield Stress (MPa)	Rek.L	≥ 500
	Rek.U	≤ 600
Ratio	Rm/Re	1.15 - 1.40
Elongation (%)		≥ 10.0

GRADE : 500N

Yield Stress (MPa)	Rek.L	≥ 500
	Rek.U	≤ 650
Ratio	Rm/Re	≥ 1.08
Elongation (%)		≥ 5.0