

STAINLESS STEEL WIRE FOR ROPING



Stainless Steel Wire for Roping has the most suitable mechanical properties for control cable, and wire ropes with a various types of packing.

▪ Properties

Type	Grade	Main Chemical Composition (%)	Properties
Austenite	302	Cr : 17 Ni : 7	AISI 302 is placed above AISI 304 in tensile strength.
	304	Cr : 18 Ni : 8	AISI 304 is placed a little bit above AISI 302 in resistance to corrosion.
	305	Cr : 17 Ni : 12	AISI 305 is non-magnetic. AISI 305 is similar to AISI 302 & 304 in resistance to corrosion. AISI 305 is same level with AISI 316 in tensile strength.
	316	Cr : 17 Ni : 10 Mo : 2	AISI 316 has excellent resistance to corrosion and find resistance to sea water. It is placed under AISI 304 in tensile strength and characterized by non-magnetic.

▪ Mechanical Properties (Tensile Strength : ASTM A 492)

Dia. (mm)	AISI 302, 304		AISI 305, 316	
	× 1000 PSI	N/mm ²	× 1000 PSI (Min)	N/mm ² (Min)
~ 0.18	320 ~ 355	2210 ~ 2450	245	1690
0.19 ~ 0.25	312 ~ 350	2150 ~ 2410	245	1690
0.26 ~ 0.38	310 ~ 345	2140 ~ 2380	240	1650
0.39 ~ 0.48	305 ~ 340	2100 ~ 2340	240	1650
0.49 ~ 0.64	295 ~ 330	2030 ~ 2280	235	1620
0.65 ~ 0.76	285 ~ 315	1960 ~ 2170	235	1620
0.77 ~ 0.89	275 ~ 310	1900 ~ 2140	235	1620
0.90 ~ 1.02	260 ~ 300	1790 ~ 2070	235	1620
1.03 ~ 1.27	255 ~ 285	1760 ~ 1970	230	1590
1.28 ~ 1.52	250 ~ 280	1720 ~ 1930	225	1550
1.53 ~ 1.78	245 ~ 275	1690 ~ 1900	220	1520
1.79 ~ 2.03	240 ~ 270	1650 ~ 1860	210	1450
2.04 ~ 2.29	240 ~ 270	1650 ~ 1860	210	1450
2.30 ~ 2.54	235 ~ 265	1620 ~ 1830	205	1410

▪ Packing

Spool	Material	Dia. (mm)	Winding Weight (Kg)
DIN 100	Plastic	0.08 ~ 0.25	1.5
DIN 125	Plastic	0.10 ~ 0.25	3
DIN 160	Plastic	0.16 ~ 1.00	6
DIN 200	Plastic	0.16 ~ 1.00	12
DIN 250	Plastic	0.21 ~ 1.00	20
DIN 355	Plastic	0.51 ~ 1.00	40
B 10	Plastic	0.08 ~ 0.25	5
B 40 (60)	Steel	0.21 ~ 1.00	25

• Packing on wooden reel is also available from 0.50mm and bigger size.