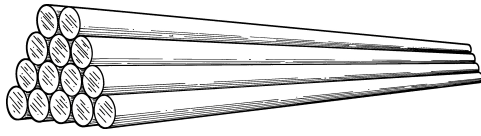


Copper-Nickel Rod

90-10 & 70-30 Rod



- UNS Designation Numbers: 90-10 (UNS C70600) and 70-30 (UNS C71500).
- Nominal Chemicals:
 - 90-10: Copper 88.6%, Nickel 10.0%, Iron 1.4%.
 - 70-30: Copper 69.5%, Nickel 30.0%, Iron 0.5%.
- Average Mechanical Properties:
 - 90-10: Tensile 40,000 psi, Yield 18,000 psi, Elongation 35%, Machinability = 20.
 - 70-30: Tensile 45,000 psi, Yield 18,000 psi, Elongation 30%, Machinability = 20.
- Specifications: MIL-C-15726F, ASTM B 151, Temper 060 Soft.
- Stocked in random lengths.
- 70-30 Copper-Nickel rod is regarded as one of the best materials for marine applications because it is used in petroleum and chemical industries where conditions of temperature and corrosion are too severe for other alloys. Widely used in marine applications where resistance to both corrosion and biofouling is important. Because of its excellent corrosion resistance, anti-fouling characteristics, resistance to erosion in turbulent water and strength under different conditions of temperature and pressure.

Diameter Size	Lbs/Ft	90-10 Part Number	70-30 Part Number
$\frac{1}{4}$.2		143028 (Ho1 Temper)
$\frac{3}{8}$.432		416934
$\frac{1}{2}$.756	143303	143002
$\frac{5}{8}$	1.18		143010
$\frac{3}{4}$	1.71	143329	143036
$\frac{7}{8}$	2.32	143337	143044
1	3.06	143345	143052
$1 \frac{1}{8}$	3.84	143353	295697
$1 \frac{1}{4}$	5	143361	143060
$1 \frac{3}{8}$	6	143379	143078
$1 \frac{1}{2}$	7	143387	143086
$1 \frac{3}{4}$	9.76	143400	143094
2	12.75	143418	143109
$2 \frac{1}{4}$	16.13	143426	143125
$2 \frac{3}{8}$	17.32	143434	143133
$2 \frac{1}{2}$	20	143442	143141
$2 \frac{3}{4}$	24	143450	143159
3	28	143468	143167
$3 \frac{1}{16}$	30		487244
$3 \frac{1}{2}$	38	143264	143175
$3 \frac{3}{4}$	42.85	476099	476099
4	48	142983	143183
$4 \frac{1}{2}$	64.50		143191
5	80	405438	143206
$5 \frac{1}{2}$	96		143214
6	115	283690	143222
7	156		143230
8	207.5		143248
9	258		143256
10	320		143272

Sizes $5 \frac{1}{2}$ " and over are hot forged and turned.
 Dimensions are in inches. All weights are approximate.
 Sizes not shown may be available upon request. Specifications: pg. 62.