

# AMS 4880-C95510

Wieland Concast produces AMS 4880-C95510 alloy, a standard-stocked alloy with over 40 popular sizes available, suitable for industries such as aircraft, aerospace, and oil and gas.

Product description	Nickel-aluminum bronze
Solids	1/2" to 9" O.D.
Tubes	1 1/8" to 13" O.D.
Rectangles	Up to 15"
Standard lengths	24"*

*\*Consult mill for other lengths*

## Typical uses:

Aircraft and aerospace:

- Landing gear bushings and bearings

Oil and gas:

- Bushings, hydraulic seal components

General:

- Bearings requiring abrasion resistance / good ductility / retention of hardness at moderate temperatures

## Wieland Concast certifications

- AS9100:2016-certified quality management system
- ISO 9001:2015-certified quality management system



# AMS 4880-C95510 overview

## Chemical composition

Cu (%)	Sn (%)	Zn (%)	Fe (%)	Ni (%) <sup>1</sup>	Al (%)	Mn (%)
78.00 min	0.20	0.30	2.00-3.50	4.50-5.50	9.70-10.90	1.50

Chemical composition according to AMS 4880

<sup>1</sup>Ni value includes Co.

Note: Cu + sum of named elements, 99.8% min. Unless otherwise noted, single values represent maximums.

## Mechanical properties

Tensile strength, min		Yield strength at 0.2% offset, min		Elongation, in 4D, min	Brinell hardness	Remarks
ksi	MPa	ksi	MPa	%	min to max BHN	
105.0	724	62.5	431	9	192 to 248	Castings <4.0, heat treated
95.0	655	56.0	386	9	192 to 248	Castings 4.0+, heat treated

Mechanical properties according to AMS 4880

## Stocked size schedule

Nom. Size		Weight	Weight	Nom. Size		Weight	Weight	Nom. Size		Weight	Weight
O.D.	x I.D.	Per Inch	Per Foot	O.D.	x I.D.	Per Inch	Per Foot	O.D.	x I.D.	Per Inch	Per Foot
2.000	x 1.000	0.739	8.868	3.500	x 1.500	2.476	29.712	5.750	x 4.250	3.979	47.748
2.250	x 1.250	0.867	10.404		2.500	1.639	19.668	6.000	x 3.000	6.469	77.628
	1.500	0.707	8.484	3.750	x 2.000	2.437	29.244		3.750	5.556	66.672
2.500	x 1.000	1.242	14.904		2.500	1.943	23.316		4.500	4.433	53.196
	1.500	1.002	12.024		2.750	1.764	21.168		5.375	2.397	28.764
	1.750	0.821	9.852	4.000	x 2.000	2.860	34.320	6.500	x 4.000	6.608	79.296
2.750	x 1.500	1.254	15.048		2.500	2.505	30.060		5.000	4.704	56.448
	1.750	1.008	12.096	4.125	x 3.125	1.923	23.076	7.000	x 4.000	8.000	96.000
2.875	x 1.875	1.149	13.788	4.250	x 3.000	2.311	27.732	8.000	x 6.000	7.347	88.164
3.000	x 1.500	1.515	18.180	4.500	x 2.500	3.327	39.924	8.500	x 6.000	8.866	106.392
	2.000	1.210	14.520		3.000	2.792	33.504		6.500	7.568	90.816
3.125	x 2.125	1.378	16.536	5.000	x 3.000	4.207	50.484	11.000	x 9.000	9.867	118.404
3.250	x 2.000	1.657	19.884		3.750	3.012	36.144	12.000	x 10.250	9.794	117.528
	2.250	1.512	18.144	5.500	x 3.500	4.396	52.752	13.000	x 10.000	16.564	198.768

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