

## **Copper Alloy, Certified Reference Material, Tin Bronze, CDA 903 / UNS C90300, Chips**

Art. ID	IARM-Cu903-18-C
Unit	each
Deliverydetails	No Dangerous Good /not restricted

### Description

A tin bronze alloy also known as Navy G is CDA 903 (IARM-Cu903-18). CDA 903 is a type of gear bronze, a family of bronze alloys used for wear resistance in high velocity situations. Gear bronzes compose most of the non-ferrous alloys for these applications. As the name implies, Navy G is widely used in marine environments because of its strong corrosion resistance.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Certified Value	Silver (Ag)	[7440-22-4]	0,0059 ± 0,0008	%		
Certified Value	Cobalt (Co)	[7440-48-4]	0,0019 ± 0,004	%		
Certified Value	Copper (Cu)	[7440-50-8]	86,5 ± 0,3	%		
Certified Value	Iron (Fe)	[7439-89-6]	0,012 ± 0,004	%		
Certified Value	Nickel (Ni)	[7440-02-0]	0,41 ± 0,01	%		
Certified Value	Oxygen (O)	[7782-44-7]	0,0013 ± 0,0003	%		
Certified Value	Phosphorus (P)	[7723-14-0]	0,060 ± 0,008	%		
Certified Value	Lead (Pb)	[7439-92-1]	0,066 ± 0,009	%		
Certified Value	Antimony (Sb)	[7440-36-0]	0,002 ± 0,001	%		
Certified Value	Tin (Sn)	[7440-31-5]	8,3 ± 0,2	%		
Certified Value	Zinc (Zn)	[7440-66-6]	4,6 ± 0,1	%		
Indicative Value	Aluminium (Al)	[7429-90-5]	10	ppm		
Indicative Value	Arsenic (As)	[7440-38-2]	10	ppm		
Indicative Value	Boron (B)	[7440-42-8]	<4	ppm		
Indicative Value	Bismuth (Bi)	[7440-69-9]	9	ppm		
Indicative Value	Carbon (C)	[7440-44-0]	20	ppm		
Indicative Value	Calcium (Ca)	[7440-70-2]	<7	ppm		
Indicative Value	Cadmium (Cd)	[7440-43-9]	4	ppm		
Indicative Value	Chromium (Cr)	[7440-47-3]	<10	ppm		
Indicative Value	Hydrogen (H)	[1333-74-0]	<2	ppm		
Indicative Value	Magnesium (Mg)	[7439-95-4]	0	ppm		
Indicative Value	Manganese (Mn)	[7439-96-5]	4	ppm		
Indicative Value	Molybdenum (Mo)	[7439-98-7]	<0,2	ppm		
Indicative Value	Nitrogen (N)	[7727-37-9]	<0,3	ppm		
Indicative Value	Palladium (Pd)	[7440-05-3]	<1	ppm		
Indicative Value	Sulfur (S)	[7704-34-9]	17	ppm		
Indicative Value	Selenium (Se)	[7782-49-2]	10	ppm		

Indicative Value	Silicon (Si)	[7440-21-3]	40	ppm
Indicative Value	Titanium (Ti)	[7440-32-6]	<1	ppm
Indicative Value	Vanadium (V)	[7440-62-2]	<100	ppm
Indicative Value	Tungsten (W)	[7440-33-7]	<100	ppm
Indicative Value	Zirconium (Zr)	[7440-67-7]	<10	ppm