



PHYSICAL & CHEMICAL PROPERTIES OF VALVE ALLOYS

The high degree of alloying required by the metals used in the manufacture of Milwaukee Valves is paramount in establishing safety, long wearing qualities and strength of the component for the recommended service requirements. They are selected to meet the critical needs of the mediums handled. Their physical and chemical properties come within the limits as established by ASTM and other recognized specifications.

Alloy Name	Specification	Nominal Alloy Composition	P.S.I. Tensile Strength	P.S.I. Yield Strength	Elongation in %
Composition Bronze or Ounce Metal Suitable to 366F.	ASTM-B-62	85-Cu 5-Sn 5-Pb 5-Zn	30,000	14,000	20
Navy M Bronze or (Steam or Valve Bronze) Suitable to 550F.	ASTM-B-61	88-Cu 6-Sn 2-Pb 4-Zn	34,000	16,000	22
Free Cutting Yellow Bronze	ASTM-B-16	61.5-Cu 35.5-Zn 3.0-Pb	56,000	25,000	10
Naval Bronze Rod	ASTM-B-21 Alloy A	61.5-Cu 3.5-Pb 0.35-Fe Remainder Zn	65,000	40,000	28

Other physical and chemical properties of materials referred to can be furnished on request

The information presented on this sheet is correct at the time of publication. Milwaukee Valve reserves the right to change design, and/or material specifications without notice.

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