

Alloy Chart Legend

- * = Ingot Specifications.
- a = In determining copper minimum, copper can be calculated as Copper + Nickel.
- b = Minimum of total named elements.
- c = Total Lead, Zinc, and Nickel maximum 1%
- d = Manganese or Nickel at option of contractor.
- e = In reporting chemical analysis obtained by use of instruments such as spectrograph, x-ray, and atomic absorption. Copper may be indicated as remainder. In reporting chemical analysis by wet methods, Zinc may be indicated as a remainder on those alloys with over 2% zinc.
- f = For ASTM B505 Phosphorus 1.05 maximum.
- g = For continuous castings Phosphorus shall be 1.5% maximum.
- h = For ASTM B505 Phosphorous 0.10 maximum.
- i = For ASTM B505 Phosphorus 1.0 maximum.
- k = The mechanical requirements of C04700 (Heat Treated) may not be obtained if Lead exceeds 0.01%.
- l = Antimony 0.05 maximum; Sulphur 0.05 maximum; Phosphorus 0.01 maximum; Arsenic 0.05 maximum.
- m = Iron content shall not exceed the Nickel content.
- n = Manganese 0.25 maximum, Arsenic 0.05 maximum.
- o = Rockwell B72-82
- p = For B22 in compression, Deformation Limit 18,000 Psi minimum
- q = For B22 in compression, Deformation Limit, 24,000 Psi minimum.
- r = For B22 in compression, Deformation Limit, 55,000 Psi minimum; Brinell Hardness (3,000 Kg), minimum 223.
- s = Copper + Tin + Lead + Nickel + Phosphorus = 99.55 minimum.
- t = For information only.
- u = As Cast or Temper Annealed.
- v = For Die Castings, 1700-1800°F.
- w = Chill Cast