

Nickel based: MET Alloy K500

Alternative designation: 2.4375 / N05500 / NiCu30Al

Description and general material properties

MET Alloy K500 is a nickel-copper alloy which has extreme hardness and high tensile strength in the temperature range lower than 650°C (1.202°F). The melting point of this material is 1.350°C (2.462°F). Due to its excellent corrosion resistance the alloy is well suited for marine and chemical applications, Typical applications are springs, shafts and fasteners for marine propellers, oil handling equipment, knives, scrapers, or springs.

Powder characteristics

Chemical composition		
Element	Min [wt%]	Max [wt%]
Ni	63,0	
Cu	27,0	34,0
Al	2,2	3,5
Fe	0,5	2,0
Ti	0,3	1,0
Mn		1,5
Co		1,0
Si		0,5
C		0,2
Others total		0,17

