

## Nickel based: MET Alloy K500

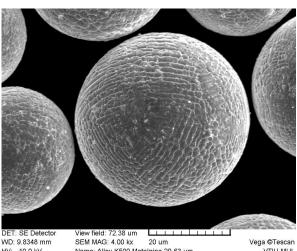
## Alternative designation: 2.4375 / N05500 / NiCu30Al

## **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
Со		1,0
Si		0,5
С		0,2
Others total		0,17



HV: 10.0 kV

Name: Alloy K500 Metalpine 20-63 um

VTIU-MUL