

**Monel K-500** is a nickel-copper super alloy with characteristics and corrosion resistance same as the Alloy 400. Due to the addition of aluminum and titanium Alloy K-500 offers greater strength and hardness than Alloy 400.

#### **Monel K-500** Specification

Grade	UNS	W.Nr
Alloy K500	N05500	2.4375

#### **Monel K-500** Chemical composition

Grade	%	Ni	Cu	Al	Ti	Fe	Mn	S	C	Si
<b>Monel K-500</b>	Min	63	27.0	2.30	0.35					
	Max		33.0	3.15	0.85	2.0	1.5	0.01	0.25	0.5

#### **Monel K-500** Mechanical properties: (Minimum value at 20°C)

Tensile Strength $\sigma_b$ /MPa	Yield Strength $\sigma_{p0.2}$ /MPa	Elongation $\sigma_5$ /%
$\geq 1100$	$\geq 790$	$\geq 20$

#### **Monel K-500** Standard

Bar
ASTM B865

#### **Monel K-500** Size Range

- Wire: Dia 0.08-12mm
- Bar: Dia 1.0-300mm
- Strip(Coil): 0.2-20mm TCK x 10-300mm W
- Sheet: min.0.7mm TCK x 1200mm W max.
- Tube & Forging & Machine Parts: customized
- Welding wire: 0.8mm, 1.0mm, 1.2mm, 2.0mm, 2.4mm, 3.2mm, 3.8mm, 4.0mm etc
- Welding Strip: 0.4-0.7mm TCK x 25-60mm W