

Monel k-500 (UNS N05500)

Monel K-500 的化学成分:

Chemical composition of Monel K-500:

合金 Alloy	% 镍 Ni	铜 Cu	铝 Al	钛 Ti	铁 Fe	锰 Mn	硫 S	碳 C	硅 Si
Monel K500	最小 Min 63	27.0	2.30	0.35					
	最大 Max	33.0	3.15	0.85	2.0	1.5	0.01	0.25	0.5

Monel K-500 的物理性能:

Physical properties of Monel K-500:

密度 Density	8.05 g/cm ³
熔点 Melting point	1288-1343°C

Monel K-500 在常温下合金的机械性能的最小值:

Minimum mechanical properties of Monel K-500 alloy at room temperature:

合金和状态 Alloy and condition	抗拉强度 Tensile Strength Rm N/mm ²	屈服强度 Yield strength RP0.2N/mm ²	屈服强度 Yield strength A5 %
Monel K500	1100	790	20

此合金具有以下特性:

The alloy has the following properties:

MONEL K500 又叫 UNS N05500, 具有与 Alloy 400 相同的耐蚀性能, 但是具有更高的机械强度和硬度。具有较好的耐热腐蚀性能和长期组织稳定性。主要用于制造航空发动机上的工作温度在 750°C 以下的涡轮叶片及燃气轮机叶片; 用于制造船舶上的紧固件、弹簧; 化工设备上的泵、阀门零部件; 造纸设备上的刮浆刀片等。

MONEL K500, also known as UNS N05500, has the same corrosion resistance as Alloy 400, but with higher mechanical strength and hardness. It has good heat resistance and long - term structure stability. It is mainly used in the manufacture of turbine blades and gas turbine blades with operating temperature below 750°C on aeroengines. Used for making fasteners and springs on ships; Pump and valve parts on chemical equipment; Pulp blade on paper making equipment, etc.