

牌号  
Grade

K438



规格参数:  
Specification:

直径:  
Diameter:     ø50-ø100   mm                      公差:  
Tolerance:       ±1       mm

长度:  
Length:        160-1500   mm                     公差:  
Tolerance:      ±10       mm

状态:  
State:          磨光                               车光  
Grinding                                      Lathing

根据客户要求定制规格：长度，尺寸，公差和粗糙度等。  
Customized specifications according to customers' requirements: length, dimensions, tolerances, roughness, etc.

化学成分:                      国标                      航标  
Chemical composition:   National standard   Aviation standard

| 元素符号           |    | 成分%          | 元素符号           |    | 成分%          |
|----------------|----|--------------|----------------|----|--------------|
| Element symbol |    | Composition% | Element symbol |    | Composition% |
| 铬              | Cr | 15.7-16.3    | 硅              | Si | ≤0.30        |
| 铝              | Al | 3.2-3.7      | 锰              | Mn | ≤0.20        |
| 钼              | Mo | 1.5-2.0      | 铁              | Fe | ≤0.50        |
| 钴              | Co | 8.00-9.0     | 硫              | S  | ≤0.015       |
| 钛              | Ti | 3.0-3.5      | 磷              | P  | ≤0.015       |
| 碳              | C  | 0.10-0.20    | 钽              | Ta | 1.5-2.0      |
| 硼              | B  | 0.005-0.015  | 镍              | Ni | 余量/Balance   |
| 钨              | W  | 2.4-2.8      | 锆              | Zr | 0.05-0.15    |
| 铌              | Nb | 0.6-1.1      |                |    |              |

力学性能                      试样状态:                      铸态  
Mechanical properties   Test bar state:            casting

| 试验温度<br>Test temp<br>(℃) | 抗拉强度<br>Tensile<br>strength<br>(MPa) | 屈服强度<br>Yield<br>strength<br>(MPa) | 延伸率<br>Elogation<br>(%) | 断面收缩率<br>Reduction<br>of area<br>(%) | 试验温度<br>Test temp<br>(℃) | 试验应力<br>Test stress<br>(MPa) | 持续时间<br>Duration<br>(h) | 延伸率<br>Elongation<br>(%) |
|--------------------------|--------------------------------------|------------------------------------|-------------------------|--------------------------------------|--------------------------|------------------------------|-------------------------|--------------------------|
| 室温<br>RT                 | ≥880                                 | ≥760                               | ≥4.0                    | ≥5.0                                 | 760                      | 585                          | 23                      | —                        |
| 650                      | ≥880                                 | ≥700                               | ≥5.0                    | ≥5.0                                 | 980                      | 150                          | ≥35                     | —                        |